



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

### Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

### About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

PATENTEE & MANUFACTURER  
OF THE  
SELF-ACTING LUBRICATOR.



FOR STEAM ENGINES  
OF EVERY DESCRIPTION.

By Her Majesty's



Royal Letters Patent.

PATENTEE & MANUFACTURER  
OF THE  
IMPROVED METALLIC PISTON.



SECTION.



PLAN WITHOUT COVER.

**EDWARD BROOKES,**

(OF THE LATE FIRM OF BROOKES BROTHERS.)

**IRONFOUNDER, ENGINEER, MACHINIST, & TOOL MAKER,**  
**HIGH STREET, SHEFFIELD,**

(All COMMUNICATIONS to be ADDRESSED to the OFFICES, HIGH-ST., SHEFFIELD.)

PATENTEE AND MANUFACTURER OF

**BROOKES'S IMPROVED PATENT METALLIC PISTON,**

The most simple in construction, and durable, and realizes a greater SAVING IN COALS than any other.

**BROOKES'S PATENT METALLIC AIR PUMP BUCKET**

PREVENTS all inconvenience and LOSS OF TIME in reeking, and Saves the Cost of Hemp and Labour.

**BROOKES'S PATENT METALLIC LIFT BUCKET, FOR PUMPS, WITH GUN METAL RINGS, DOORS, & FACINGS**

Is more Efficient, Durable, and Economical than Gutta Percha, or any other kind.

**BROOKES'S PATENT SELF-ACTING LUBRICATORS,**

For Steam Engines of every description, effecting a SAVING of 50 PER CENT. IN TALLOW; having NO TAPS  
NO VALVES, NO LEAKAGE. NO REPAIRS REQUIRED.

**MANUFACTURER OF WRIGHT'S PATENT MOVEABLE FIRE BARS,**

Adapted to every description of Boilers, Puddling and other Furnaces; and in Fixing of which is combined, without Extra Cost, the most efficient mode of SMOKE PREVENTION hitherto introduced. These Bars effect a SAVING of FUEL.

VERTICAL AND HORIZONTAL STEAM ENGINES AND BOILERS, STEAM PUMPS,

Punching & Shearing Machines, Planing, Shaping, Slotting, & Drilling Machines; Slide & Screwing  
Lathes, Bolt Screwing Machines, Vertical Saw Frames, Saw Tables, General Joiner, Saw Spindles,

**STEAM HAMMERS, STEAM CRANES AND WINCHES,**

Travelling, Wharf, and Warehouse Cranes; Hydraulic Pumps and Presses, Traversing, Lifting,  
and Hydraulic Jacks; Crab Winches, Pulley Blocks, Patent Differential Pulley Blocks, Parallel  
and Staple Bench Vices,

BRASS MOUNTINGS AND FITTINGS FOR LOCOMOTIVE AND STATIONARY ENGINES AND BOILERS,

Locomotive, Carriage, and Waggon Springs and Buffers; Cast Steel Forgings, Shafts, Piston  
and Connecting Rods, Straight and Crank Axles, Stocks and Dies, Ratchet Braces,

**ENGINEERS' & CONTRACTORS' HAMMERS,**

Coach and Railway Wrenches, Shifting Screw Keys and Spanners, Miners', Contractors', and  
Platelayers' Tools; Collinge's Mail and Waggon Axles, Plantation and Horticultural Tools,  
Light and Heavy Edge Tools, Saws, Files, Joiners' Tools, Emigrants', Gentlemen's, and Horti-  
culturists' Tool Chests; Chains, Nails, Screws, Bolts, Nuts, Washers, Hammers, Pliers, Pincers,  
Compasses, Pruning and Garden Shears, Hoes, Rakes, Forks, Bills, Trowels, &c.

**BEST REFINED CAST STEEL, DOUBLE AND SINGLE SHEAR STEEL, BLISTER AND  
DRIFT STEEL.**

**SOLE PUBLISHER OF "THE ILLUSTRATED SHEFFIELD LIST."**

JUST PUBLISHED, the 11th and 12th Editions, (FOURTEENTH THOUSAND) containing about one-half more than the  
10th Edition. Prices opposite the Engravings. Numbers follow progressively from the top of each Page. Being  
compiled by a Manufacturer (from whom all the Goods may be obtained), it is THE ONLY ILLUSTRATED SHEFFIELD  
LIST THAT CAN BE RELIED ON FOR ACCURACY OF PRICES, in many cases being 10 to 50 per Cent. lower than the  
Prices in other Illustrated Lists.

THE  
ILLUSTRATED  
**SHEFFIELD LIST.**



ENTERED AT STATIONERS' HALL.

ELEVENTH AND TWELFTH EDITIONS.

*No. 12003*



SEPTEMBER, 1871.

186





PATENTEE & MANUFACTURER  
OF THE  
SELF-ACTING LUBRICATOR.



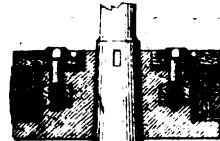
FOR STEAM ENGINES  
OF EVERY DESCRIPTION.

By Her Majesty's

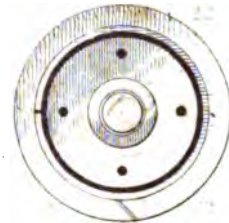


Royal Letters Patent.

PATENTEE & MANUFACTURER  
OF THE  
IMPROVED METALLIC PISTON.



SECTION.



PLAN WITHOUT COVER.

**EDWARD BROOKES,**

(OF THE LATE FIRM OF BROOKES BROTHERS,)

**IRONFOUNDER, ENGINEER, MACHINIST, & TOOL MAKER,**  
**HIGH STREET, SHEFFIELD,**

(ALL COMMUNICATIONS to be ADDRESSED to the OFFICES, HIGH-ST., SHEFFIELD.)

PATENTEE AND MANUFACTURER OF  
**BROOKES'S IMPROVED PATENT METALLIC PISTON,**

The most simple in construction, and durable, and realizes a greater SAVING IN COALS than any other.

**BROOKES'S PATENT METALLIC AIR PUMP BUCKET**

PREVENTS all inconvenience and LOSS OF TIME in racking, and Saves the Cost of Hemp and Labour.

**BROOKES'S PATENT METALLIC LIFT BUCKET, FOR PUMPS, WITH GUN METAL RINGS, DOORS, & FACINGS**

Is more Efficient, Durable, and Economical than Gutta Percha, or any other kind.

**BROOKES'S PATENT SELF-ACTING LUBRICATORS,**

For Steam Engines of every description, effecting a SAVING of 50 PER CENT. IN TALLOW; having NO TAPS,  
NO VALVES, NO LEAKAGE. NO REPAIRS REQUIRED.

**MANUFACTURER OF WRIGHT'S PATENT MOVEABLE FIRE BARS,**

Adapted to every description of Boilers, Puddling and other Furnaces; and in Fixing of which is combined, without Extra Cost, the most efficient mode of SMOKE PREVENTION hitherto introduced. These Bars effect a SAVING of FUEL.

VERTICAL AND HORIZONTAL STEAM ENGINES AND BOILERS, STEAM PUMPS,

Punching & Shearing Machines, Planing, Shaping, Slotting, & Drilling Machines; Slide & Screwing  
Lathes, Bolt Screwing Machines, Vertical Saw Frames, Saw Tables, General Joiner, Saw Spindles,

**STEAM HAMMERS, STEAM CRANES AND WINCHES,**

Travelling, Wharf, and Warehouse Cranes; Hydraulic Pumps and Presses, Traversing, Lifting,  
and Hydraulic Jacks; Crab Winches, Pulley Blocks, Patent Differential Pulley Blocks, Parallel  
and Staple Bench Vices,

BRASS MOUNTINGS AND FITTINGS FOR LOCOMOTIVE AND STATIONARY ENGINES AND BOILERS,

Locomotive, Carriage, and Waggon Springs and Buffers; Cast Steel Forgings, Shafts, Piston  
and Connecting Rods, Straight and Crank Axles, Stocks and Dies, Ratchet Braces,

**ENGINEERS' & CONTRACTORS' HAMMERS,**

Coach and Railway Wrenches, Shifting Screw Keys and Spanners, Miners', Contractors', and  
Platelayers' Tools; Collinge's Mall and Waggon Axles, Plantation and Horticultural Tools,  
Light and Heavy Edge Tools, Saws, Files, Joiners' Tools, Emigrants', Gentlemen's, and Horti-  
culturists' Tool Chests; Chains, Nails, Screws, Bolts, Nuts, Washers, Hammers, Pliers, Pincers,  
Compasses, Pruning and Garden Shears, Hoes, Rakes, Forks, Bills, Trowels, &c.

**BEST REFINED CAST STEEL, DOUBLE AND SINGLE SHEAR STEEL, BLISTER AND  
DRIFT STEEL.**

**SOLE PUBLISHER OF "THE ILLUSTRATED SHEFFIELD LIST."**

JUST PUBLISHED, the 11th and 12th Editions, (FOURTEENTH THOUSAND) containing about one-half more than the  
10th Edition. Prices opposite the Engravings. Numbers follow progressively from the top of each Page. Being  
compiled by a Manufacturer (from whom all the Goods may be obtained), it is the ONLY ILLUSTRATED SHEFFIELD  
LIST THAT CAN BE RELIED ON FOR ACCURACY OF PRICES, in many cases being 10 to 50 per Cent. lower than the  
Prices in other Illustrated Lists.

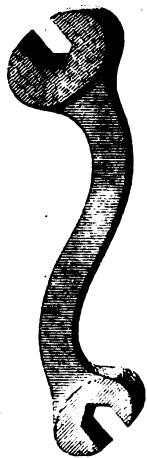


## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	COACH WRENCHES AND SPANNERS.																					
			6	7	8	9	10	11	12	13	14	15	16	17	18	inch.							
	20	Coach Wrenches .....	2/3	2/6	2/9	3/0	3/6	3/9	4/3	4/6	5/0	5/6	6/3	7/0	7/9	each.							
	21	Double Coach Wrenches ....	5/0	5/3	5/6	5/9	6/3	6/9	7/3	8/3	9/6	11/6	13/0	14/6	16/0	"							
	22	Best Double ditto .....	6/0	6/6	7/0	7/6	8/6	9/6	10/3	11/0	12/0	13/6	16/0	16/6	18/0	"							
	23	Improved Cylinder ditto ....	5/6	5/9	6/3	7/0	7/9	8/6	9/6	10/0	11/0	12/6	14/0	15/6	17/0	"							
	24	Best Double Railway ditto ...	8/0	9/0	9/6	10/0	11/0	11/9	12/6	13/6	14/6	15/0	17/6	19/0	21/0	"							
	25	Improved Rack																					
		Length .....	4	5	6	8	10	12	15	18	21	24	27	30	inch.								
		Span .....	1	1	1	1	1	2	2	3	3	4	4	5	"								
		Spanner ....	3/6	4/0	4/6	5/0	6/6	8/0	10/0	12/0	14/0	16/0	18/0	20/0	each.								
	26	Clyburn's Span-																					
		ner .....	Length .....	4	5	6	8	10	12	15	18	21	24	26	28	30	inch.						
			Span .....	1	1	1	1	1	1	1	2	2	2	2	3	"							
				5/0	5/6	6/0	7/0	8/6	10/6	12/6	14/0	16/6	18/6	21/0	24/0	27/0	each.						
	27	Budding's do...																					
		Length .....	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	in.					
		Span .....	1	1	1	1	1	1	2	2	2	2	3	3	3	4	"						
				5/0	5/6	6/0	7/0	8/6	10/6	11/6	13/0	14/6	16/0	18/0	20/0	22/0	24/0	26/0	each.				
	28	Key Spanner ..																					
		Length .....	8	10	12	14	16	18	21	24	27	30	in.										
		Span .....	1	1	1	2	2	2	3	3	4	4	"										
			3/0	4/0	5/0	6/6	8/3	10/6	14/0	16/6	18/6	22/0	each.										
	29	Screw Key ....																					
		Length .....	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	in.			
		Span .....	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	"				
			1/1	1/2	1/4	1/6	1/9	2/0	2/3	2/6	2/9	3/0	3/3	3/6	3/9	4/3	4/9	each.					
		Ditto .....																					
		Length .....	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	in.				
		Span .....	2	2	2	2	3	3	3	3	3	3	4	4	4	4	5	"					
																			each.				
	30	Double End																					
		Screw Key ..	Length .....	4	4	5	5	6	6	7	7	8	8	9	9	10	in.						
			Span .....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	"				
				1/3	1/3	1/6	1/6	1/9	1/9	2/0	2/0	2/2	2/2	2/4	2/4	2/4	2/7	each.					
		Continued ....	Length .....	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	in.				
			Span .....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	"				
				2/7	2/9	2/9	3/0	3/0	3/6	3/6	3/5	3/5	3/9	3/9	each.								
		Continued ....	Length .....	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	in.				
			Span .....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	"				
				4/6	4/6	5/0	5/0	5/9	5/9	6/6	6/6	7/3	7/3	each.									
	31	Same Price....																					
		Length .....	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	in.				
		Span .....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	"				
			8/3	8/3	9/3	9/3	10/3	10/6	11/6	11/6	12/6	each.											
		—As No. 30 ..																					
		Length .....	24	25	25	26	26	27	27	28	28	29	in.										
		Span .....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	"				
																			each.				
		Continued ....	Length .....	29	30	31	32	33	36	inch.													
			Span .....	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	"				

## MALLEABLE IRON SPANNERS.

Size of Single-end Spanners, Same Pattern as No. 29.				No. 9 .. .. .				No. 19 .. .. .			
No. 1	..	..	5 1/2 x 1/2	..	..	..	14 1/2 x 1 1/2	..	..	..	27 1/2 x 2 1/2
" 2	..	..	6 1/2 x 1/2	..	..	..	15 1/2 x 1 1/2	..	..	..	28 1/2 x 3
" 3	..	..	8 x 1/2	..	..	..	16 1/2 x 1 1/2	..	..	..	30 x 3 1/2
" 4	..	..	9 x 1/2	..	..	..	17 1/2 x 1 1/2	..	..	..	32 1/2 x 3 1/2
" 5	..	..	10 1/2 x 1/2	..	..	..	19 x 1 1/2	..	..	..	33 1/2 x 3 1/2
" 6	..	..	11 1/2 x 1	..	..	..	20 x 2	..	..	..	36 x 4
" 7	..	..	12 1/2 x 1 1/2	..	..	..	21 1/2 x 2 1/2	..	..	..	37 1/2 x 4 1/2
" 8	..	..	13 1/2 x 1 1/2	..	..	..	22 1/2 x 2 1/2	..	..	..	38 1/2 x 4 1/2
				..	..	..	23 1/2 x 2 1/2	..	..	..	39 1/2 x 4 1/2
				..	..	..	24 1/2 x 2 1/2	..	..	..	41 x 5
				..	..	..	25 1/2 x 2 1/2	..	..	..	
All Sizes 0/7 per lb., Rough Castings; all Sizes 0/9 per lb., Bright Ends.											
Size of Double-end Spanners. Same Pattern as No. 30 or 31.				No. 7 .. .. .				No. 15 .. .. .			
No. 0	..	..	4 1/2 x 1/2 x 1/2	..	..	..	11 1/2 x 1 1/2 x 1 1/2	..	..	..	20 x 2 1/2 x 2 1/2
" 1	..	..	5 1/2 x 1/2 x 1/2	..	..	..	12 1/2 x 1 1/2 x 1 1/2	..	..	..	22 x 2 1/2 x 2 1/2
" 2	..	..	6 1/2 x 1/2 x 1/2	..	..	..	13 1/2 x 1 1/2 x 1 1/2	..	..	..	23 x 2 1/2 x 2 1/2
" 3	..	..	7 1/2 x 1/2 x 1/2	..	..	..	14 1/2 x 1 1/2 x 1 1/2	..	..	..	24 x 2 1/2 x 2 1/2
" 4	..	..	8 1/2 x 1/2 x 1/2	..	..	..	15 1/2 x 1 1/2 x 1 1/2	..	..	..	25 x 2 1/2 x 2 1/2
" 5	..	..	9 1/2 x 1/2 x 1/2	..	..	..	16 1/2 x 1 1/2 x 1 1/2	..	..	..	26 x 2 1/2 x 2 1/2
" 6	..	..	10 1/2 x 1/2 x 1/2	..	..	..	17 1/2 x 1 1/2 x 1 1/2	..	..	..	27 x 2 1/2 x 2 1/2
				..	..	..	18 1/2 x 1 1/2 x 1 1/2	..	..	..	28 x 2 1/2 x 2 1/2
				..	..	..	19 1/2 x 1 1/2 x 1 1/2	..	..	..	29 x 2 1/2 x 2 1/2
				..	..	..	20 1/2 x 1 1/2 x 1 1/2	..	..	..	30 x 2 1/2 x 2 1/2
				..	..	..	21 1/2 x 1 1/2 x 1 1/2	..	..	..	31 x 2 1/2 x 2 1/2
				..	..	..	22 1/2 x 1 1/2 x 1 1/2	..	..	..	32 x 2 1/2 x 2 1/2
				..	..	..	23 1/2 x 1 1/2 x 1 1/2	..	..	..	33 x 2 1/2 x 2 1/2
				..	..	..	24 1/2 x 1 1/2 x 1 1/2	..	..	..	34 x 2 1/2 x 2 1/2
				..	..	..	25 1/2 x 1 1/2 x 1 1/2	..	..	..	35 x 2 1/2 x 2 1/2
				..	..	..	26 1/2 x 1 1/2 x 1 1/2	..	..	..	36 x 2 1/2 x 2 1/2
				..	..	..	27 1/2 x 1 1/2 x 1 1/2	..	..	..	37 x 2 1/2 x 2 1/2
				..	..	..	28 1/2 x 1 1/2 x 1 1/2	..	..	..	38 x 2 1/2 x 2 1/2
				..	..	..	29 1/2 x 1 1/2 x 1 1/2	..	..	..	39 x 2 1/2 x 2 1/2
				..	..	..	30 1/2 x 1 1/2 x 1 1/2	..	..	..	40 x 2 1/2 x 2 1/2
				..	..	..	31 1/2 x 1 1/2 x 1 1/2	..	..	..	41 x 2 1/2 x 2 1/2
				..	..	..	32 1/2 x 1 1/2 x 1 1/2	..	..	..	42 x 2 1/2 x 2 1/2
				..	..	..	33 1/2 x 1 1/2 x 1 1/2	..	..	..	43 x 2 1/2 x 2 1/2
				..	..	..	34 1/2 x 1 1/2 x 1 1/2	..	..	..	44 x 2 1/2 x 2 1/2
				..	..	..	35 1/2 x 1 1/2 x 1 1/2	..	..	..	45 x 2 1/2 x 2 1/2
				..	..	..	36 1/2 x 1 1/2 x 1 1/2	..	..	..	46 x 2 1/2 x 2 1/2
				..	..	..	37 1/2 x 1 1/2 x 1 1/2	..	..	..	47 x 2 1/2 x 2 1/2
				..	..	..	38 1/2 x 1 1/2 x 1 1/2	..	..	..	48 x 2 1/2 x 2 1/2



21. Screw Key.



29. Screw Key.



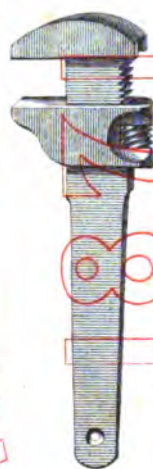
30. Screw Key.



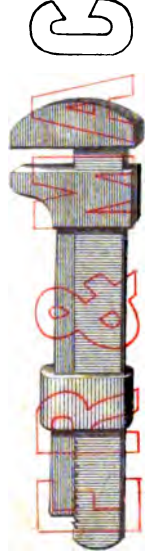
26. Clyburn's Spanner.



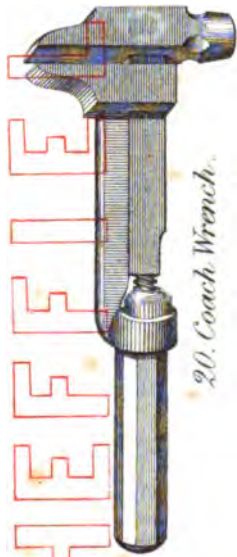
28. Key Spanner.



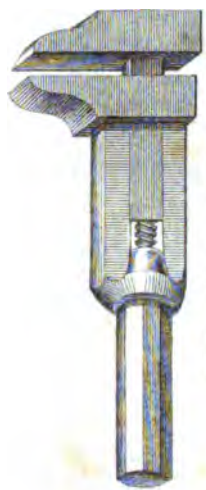
27. Budding's Spanner.



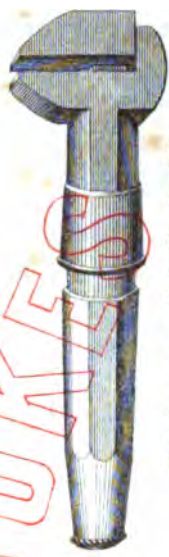
25. Improved Rack Spanner.



20. Coach Wrench.



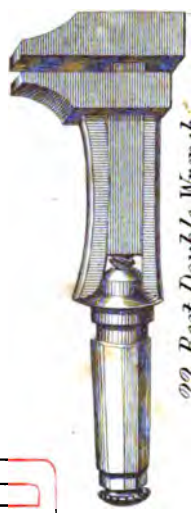
21. Double Coach Wrench.



23. Improved Cylinder Wrench.



24. Best Double Railway Wrench.



22. Best Double Wrench.

# THE ILLUSTRATED SHEFFIELD LIST.

DIS-  
COUNT.

No.

ENGINEERS' TOOLS.

SCREW STOCKS AND DIES.

32 Best Screw Stocks and Dies, warranted Whitworth's Pitch, with 4 each Taper and Plug Taps.

$\frac{1}{8}$	5-16	$\frac{3}{8}$	$\frac{1}{2}$	inch, 40/0	per Set.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	inch, 76/0	per Set.
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 45/0	"	$\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 90/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 50/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 105/0	"
9-16	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 58/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 125/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$1$	" 66/0	"	Larger sizes advance 40/0 per $\frac{1}{4}$ inch to $2\frac{1}{2}$ inch, above $2\frac{1}{2}$ , 60/0 per $\frac{1}{4}$ inch.						

33 SCREW STOCKS AND DIES, Second Quality.

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	inch, 37/0	per Set.	$\frac{1}{2}$	$1$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	inch, 67/0	per Set.
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 42/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 74/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 48/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 82/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$1$	" 54/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 139/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$1$	$1\frac{1}{2}$	" 60/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$2$	" 185/0	"

34 BEST GAS SCREW STOCKS AND DIES, with 3 each Taper and Plug Taps.

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	inch, 40/0	per Set.	$\frac{1}{2}$	$1$	$1\frac{1}{2}$	inch, 90/0	per Set.
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 45/0	"	$1$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 125/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 50/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	" 165/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 60/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$2$	" 220/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$1$	" 66/0	"	$1\frac{1}{2}$	$1\frac{1}{2}$	$2$	" 250/0	"
$\frac{1}{8}$	$\frac{1}{8}$	$1$	" 72/0	"					

35 BEST GAS SCREW STOCKS AND DIES, With 3 each Taper and Plug Taps for Brass Tube.

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	inch, 20/0	per Set.	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	inch, 23/0	per Set.
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 26/0	"	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	" 32/0	"

36 DOUBLE HAND SCREW PLATES AND TAPS. Notched.

$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$1$	inch down.
12/0	14/0	17/6	21/0	26/0	33/0	each.

37 CLOCK SCREW PLATES AND TAPS.

6	7	8	9	10	11	12	13	14	15	16	sizes.
30/0	37/0	45/0	52/0	60/0	67/0	80/0	96/0	111/0	125/0	141/0	per doz.

38 CLOCK SCREW PLATES AND TAPS. Notched.

48/0	58/0	69/0	79/0	90/0	102/0	116/0	135/0	153/0	168/0	189/0	"
If Bright, 7/6 per dozen extra.											

Improved Grooved Taps and Dies, separately; cut to Whitworth's Pitch, and made of the best Cast Steel.

Diameter in Inches	3-16	$\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	9-16	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$1$	$1\frac{1}{8}$
No. of Threads to an Inch	24	20	18	16	14	12	12	11	10	9	8	7
Working Taps, each	2/0	2/0	2/6	2/8	2/9	3/0	3/8	3/6	4/3	5/0	6/0	6/9
Master Taps	2/6	2/6	3/0	3/6	3/6	4/6	5/0	5/6	7/6	9/0	10/9	10/9
Machine Taps	2/6	2/6	3/0	3/0	3/6	3/6	4/0	5/0	5/9	7/0	8/6	9/0
Gas Taps		3/0		3/0		4/0		4/6	5/0		6/0	
Hobs for cutting Screw Tools, each		10/0	12/0		14/0		16/0				18/0	
Tap Wrenches	1/6		2/0		2/0	2/6	3/0	3/6	4/6	6/0	9/6	9/6
Screw Tools, for Slide Lathes, each			2/6						3/0			
Hand Screw Tools, each			1/9						2/0			
Extra Dies, per pair, to				3/0				4/6			6/0	

Diameter in Inches	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$2$	$2\frac{1}{2}$	$3$
No. of Threads to an Inch	7	6	6	5	5	4 $\frac{1}{2}$	4	4	3 $\frac{1}{2}$
Working Taps, each	8/0	10/6	12/0	16/0	17/0	20/0	23/0	29/0	36/0
Master Taps	12/0	14/0	16/0	21/0	24/0	27/0	30/0	36/0	44/0
Machine Taps	11/0	13/6	16/6	22/0	25/0	30/0	34/0	43/0	54/0
Gas Taps	8/0		12/0		14/6		18/0		
Hobs for cutting Screw Tools, each			20/0		22/6		25/0		27/6
Tap Wrenches	12/6	12/6	16/0	16/0					
Screw Tools, for Slide Lathes, each	3/6						4/0		
Hand Screw Tools, each	2/6						3/0		
Extra Dies, per pair, to	7/6		8/6		10/0		12/6	15/0	17/6

Guide Screws, Taps, &c., for any purpose, made to order.

HAND SCREW TOOLS, Internal and External.	3-3 $\frac{1}{2}$	4-4 $\frac{1}{2}$	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	& upwards. Threads per inch.
--	-------------------	-------------------	-----	-----	------	-------	-------	-------	-------	-------	-------	-------	----	------------------------------

Improved Round Points, for ENGINEERS, MACHINISTS, &c.	5/0	4/6	4/0	3/6	3/0	2/10	2/8	2/6	2/4	2/3	2/2	2/1	2/0	per pair.
With Sharp Points, for Ivory, Wood, and Brass Turners	3/6	3/0	2/6	2/6	2/4	2/2	2/0	1/11	1/10	1/9	1/8	1/7	1/6	per pair.

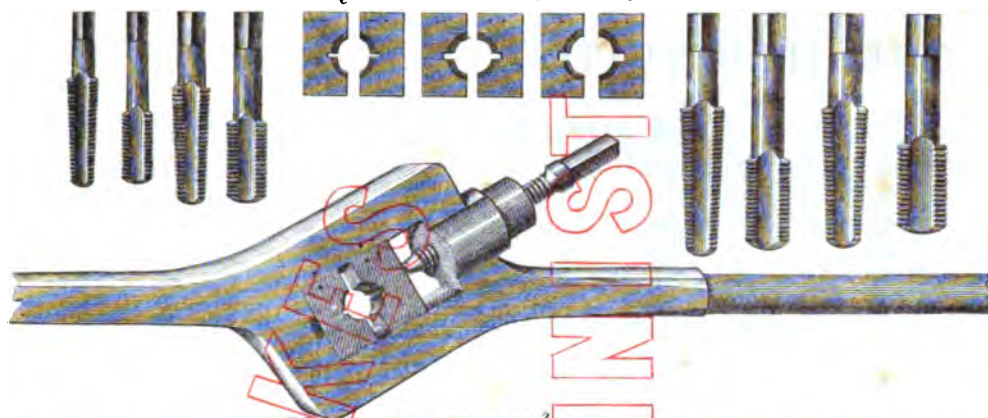
HAND SCREW TOOLS, GAS FITTERS' CORRECT STANDARD PITCHES. No. 1 2 3 4 5 6 7 8 9 10 11 12

16/0 | 18/0 | 24/0 | 30/0 & ds. pr.

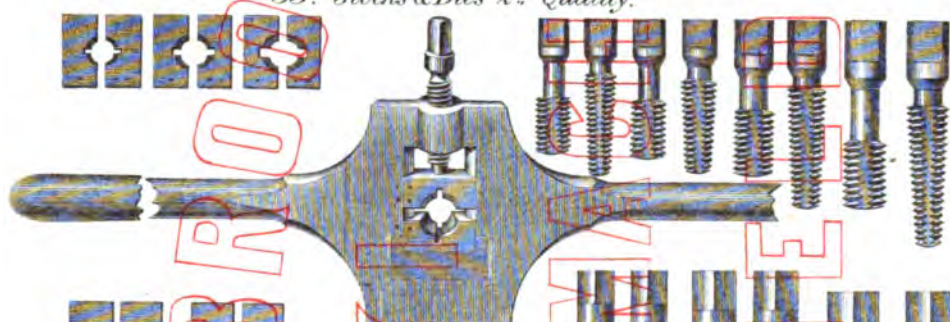


32. Best Double Handed Screw Stocks & Dies  
with 4 Pair of Dies & 4 each Taper & Plug Taps.

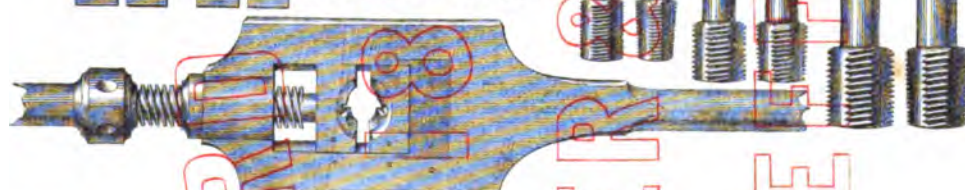
3



33. Stocks & Dies 2<sup>nd</sup> Quality.



34. Best Gas Stocks & Dies.

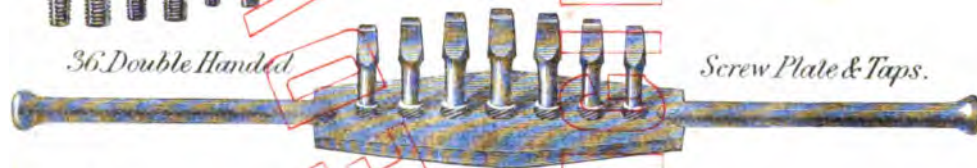


35. Best Stocks & Dies for Iron or Brass Tube.



36. Double Handed

Screw Plate & Taps.



37. Clock Screw Plate.



38. Clock Screw Plate Notched.



Dis-  
count.

No.

**CAST STEEL TURNING TOOLS, FOR IRON.**

973A	Per Set of 26 Tools, as per Engravings 1 to 26 .....	
	Per Set of 72 ditto .....	
	Per dozen Tools, as per Engravings 1 to 23 .....	
	Ditto, ditto 24 to 26 .....	

**CAST STEEL BORERS,**

For all kinds of Metals, Warranted to Standard Gauge, Half-round or Rose Bits.

$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$2$
3/0	3/6	4/0	5/0	6/0	8/0	10/0	12/0	14/0	16/0	18/0	20/0	22/0	
2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{7}{8}$	3	inches.				
24/0	26/0	28/0	30/0	33/0	36/0	40/0	45/0	50/0	each.				

Larger to advance 5/0 per  $\frac{1}{8}$  inch.

**STEEL SQUARES.**

Solid Back Squares, 1/0 per inch. | Rim Squares, 1/3 per inch. | Plain Flat Squares, 0/8 per inch.

**IRON BRACES.**

Improved Scotch Iron Braces, Warranted of Low Moor Iron.

	First.	Second.	Third Quality.	
With Lignum Heads .....	104/0	96/0	88/0	per doz.
Without Heads .....	88/0	80/0	72/0	"

Scotch Iron Braces, of Good Malleable Iron, with Wrought Iron Spindles.

	First.	Second.	Third Quality.	
With Heads .....	80/0	70/0	60/0	per doz.
Without Heads .....	64/0	56/0	48/0	"

Common Iron Braces, with Wood Heads.

No.	1	2	3	4	5	6	
	12/6	14/0	18/0	24/0	32/0	40/0	per doz.

Corner Brace, with Bevel Wheels, 135/0 per dozen.

	No.	1	2	3	4	
ARCHIMEDIAN BRACES .....	7/0	8/0	9/0	10/0	each.	

**CIRCULAR GAUGES (INTERNAL AND EXTERNAL).**

MADE TO STANDARD MEASURE.

982	No. 1 Set.— $\frac{1}{8}$ to 1 inch diameter, 16 Sizes, increasing by 1-16th inch .....	£10 10 0
	Case for ditto .....	1 10 0
983	No. 2 Set.— $1\frac{1}{8}$ to 2 inch diameter, 8 Sizes, increasing by $\frac{1}{8}$ inch .....	12 12 0
	Case for ditto .....	1 16 0
984	No. 3 Set.— $2\frac{1}{8}$ to 4 inch diameter, 8 Sizes, increasing by $\frac{1}{4}$ inch .....	15 16 0
	Case for ditto .....	2 0 0

**NUT GAUGES.**

985	No. 1 Set.— $\frac{1}{4}$ to 1 inch diameter, 7 Sizes, increasing by $\frac{1}{8}$ inch .....	2 5 0
986	No. 2 Set.— $1\frac{1}{8}$ to 2 inch diameter, 8 Sizes, increasing by $\frac{1}{8}$ inch .....	3 10 0
987	No. 3 Set.— $2\frac{1}{8}$ to 4 inch diameter, 8 Sizes, increasing by $\frac{1}{4}$ inch .....	5 5 0

**NORTON'S SPINDLE GAUGES.**

988	No. 1 Set.— $\frac{1}{8}$ to 1 inch diameter, 16 Sizes, increasing by 1-16th inch .....	2 0 0
989	No. 2 Set.—1-16th to $1\frac{1}{8}$ inch diameter, 8 Sizes, increasing by 1-16th inch .....	2 5 0
990	No. 3 Set.— $1\frac{1}{8}$ to $2\frac{1}{8}$ inch diameter, 8 Sizes, increasing by $\frac{1}{8}$ inch .....	3 0 0
991	No. 4 Set.— $2\frac{1}{8}$ to 4 inch diameter, 8 Sizes, increasing by $\frac{1}{8}$ and $\frac{1}{4}$ inch .....	4 0 0

**SLIDE AND OTHER GAUGES MADE TO ORDER,**

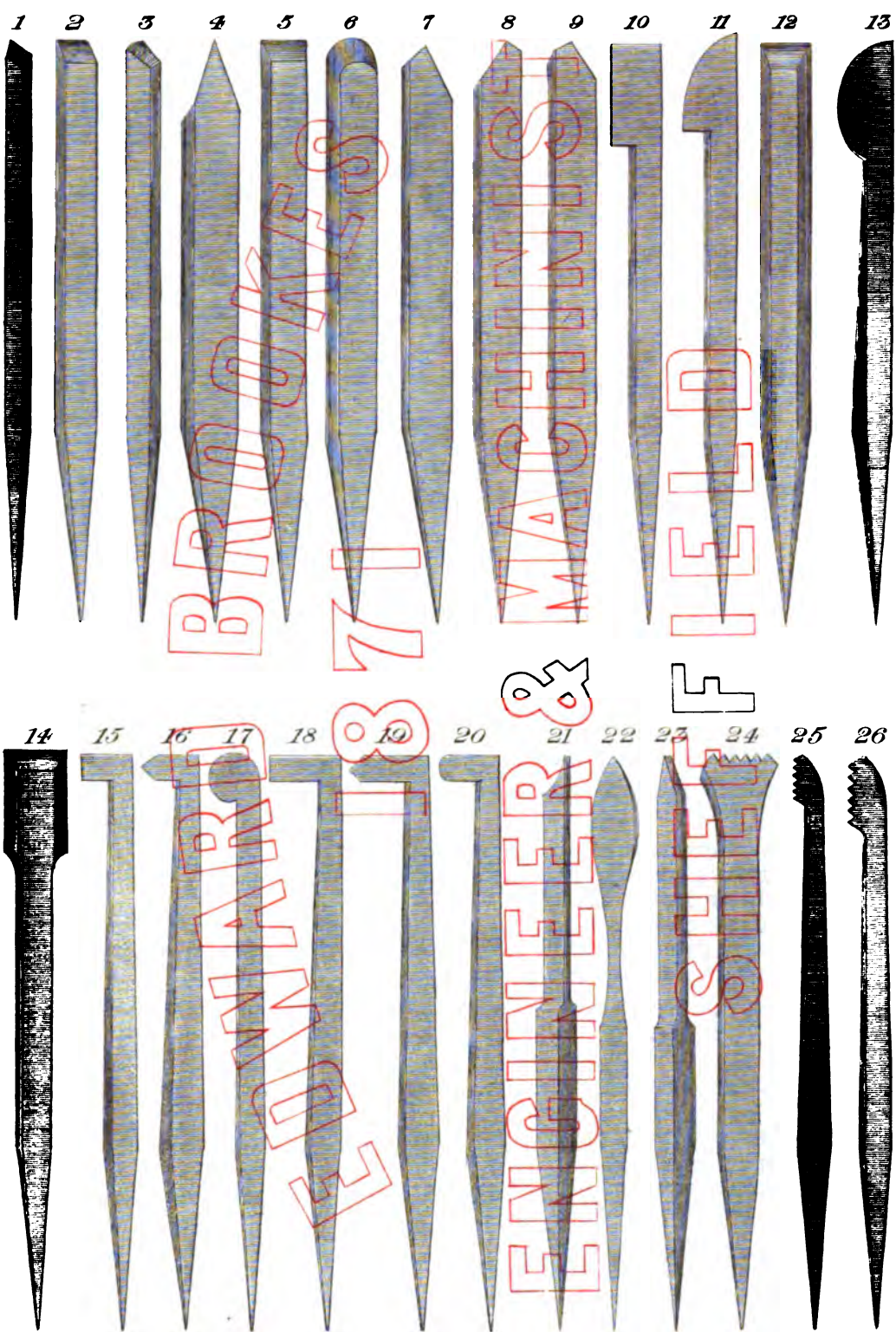
Marking in Inches, Millimetres, Rhineland, or any other measure.

**PARALLEL STEEL STRAIGHT EDGES, OR WINDING STRIPS.**

992	12	15	18	21	24	30	36	42	48	60	72	inches long.
	20/0	27/6	35/0	42/6	50/0	65/0	80/0	100/0	130/0	160/0	200/0	each.

993	STRAIGHT EDGES.—From Sheet Steel, No. 16 Gauge, 5d. per inch.	
-----	---	--

*Cast Steel Turning Tools for Iron.*





## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
	32A	<b>BEST SCREW STOCKS, No. 32, FITTED IN OAK CASE,</b> With 4 pairs of Dies, 4 Taper, 4 Second, 4 Plug, and 4 Master Taps; Tap Wrenches, Internal and External Screw Tools, Tommies, and Turnscrews. <b>A 1 SET, COMPLETE IN FIVE CASES, £84 10s.</b> $\frac{1}{2}$ 3-16 $\frac{1}{2}$ 5-16 $\frac{1}{2}$ 7-16 $\frac{1}{2}$ 9-16 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 inch. 90/0 120/0 190/0 330/0 560/0 per set. <b>A 2 SET, COMPLETE IN FOUR CASES, £49.</b> 3-16 $\frac{1}{2}$ 5-16 $\frac{1}{2}$ 7-16 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 inch. 100/0 130/0 240/0 510/0 per set. <b>A 3 SET, COMPLETE IN FOUR CASES, £54 10s.</b> $\frac{1}{2}$ 5-16 $\frac{1}{2}$ 7-16 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 inch. 110/0 170/0 280/0 530/0 per set. <b>A 4 SET, COMPLETE IN FOUR CASES, £80.</b> 5-16 $\frac{1}{2}$ 7-16 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 inch. 120/0 190/0 330/0 560/0 per set. <b>A 5 SET, COMPLETE IN THREE CASES, £40 5s.</b> $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ inch. 130/0 215/0 460/0 per set. <b>A 6 SET, COMPLETE IN THREE CASES, £45.</b> $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 inch. 150/0 240/0 510/0 per set.
	33A	<b>SECOND QUALITY SCREW STOCKS,</b> No. 33, fitted in Oak Case, with 4 pair Dies, 4 Taper and 4 Plug Taps, Tap Wrenches, and Tommies. <b>A 7 SET, IN THREE CASES, £17 10s.</b> $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ inch. 55/0 95/0 200/0 per set. <b>A 8 SET, FITTED IN THREE CASES, £21 15s.</b> $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 inch. 70/0 115/0 250/0 per set. Second Taps and Master Taps charged extra, as per List Prices.
44A		<b>Ball Ratchet Brace</b> ..... { 12   14   16   18   20   22   24   inches. { 22/0   24/0   26/0   28/0   30/0   33/0   36/0   each.
48N		<b>Joiners' Bench Screws and Nuts</b> ..... { 1   $1\frac{1}{2}$   $1\frac{1}{2}$   $1\frac{1}{2}$   $1\frac{1}{2}$   $1\frac{1}{2}$   $1\frac{1}{2}$   2   inches. { 16/0   17/0   18/0   20/0   22/0   24/0   26/0   30/0   each.
		<b>Beechwood Joiners' Bench Screws and Nuts</b> ..... { $2\frac{1}{2}$   $2\frac{1}{2}$   3   inches. { 37/0   40/0   48/0   per doz.
48H		<b>STRONG CRANK BRACE</b> , 10/6; if without Screw, 8/0 each.
48I		<b>CRAMP DRILL BRACE</b> , 30/0 each.
48X		<b>BRACE CRAMP</b> , for Iron Piping, 30/0 and 37/6 each.
48L		<b>DRILLING PILLARS</b> , 30/0 each, without Brace; <b>IF WITH SLIDING ARM</b> , 40/0 each.
48M		<b>IMPROVED GAS PIPE WRENCH</b> :—For $\frac{1}{2}$ to $1\frac{1}{2}$ , 13/; $\frac{1}{2}$ to 2 inch, 16/ each; for Iron Pipe.
48R		<b>Gas Pipe Wrench, with Three Loose Jaws</b> :— See Plate 8. For $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$   $\frac{1}{2}$ 1 $1\frac{1}{2}$   $1\frac{1}{2}$ $1\frac{1}{2}$ 2   inches. For Iron Pipe. 6/0 8/0 12/0   each.
48W		<b>Gasfitters' Pliers</b> ..... { 6   7   8   9   10   11   12   inches. { 20/0   24/0   28/0   32/0   36/0   per doz.
48P		<b>Gasfitters' Strong Tongs, for Iron Pipe</b> ..... { 12   14   16   18   22   24   inches. { 28/0   34/0   40/0   48/0   56/0   66/0   per doz.
555A		<b>SHIP CRAMPS</b> , 0/9 per lb.
973		<b>CAST STEEL CHIPPING CHISELS</b> ; assorted Patterns:—Flat, Half-round, Cross Cut, and Diamond Point, 1/0 per lb.
974		<b>PARALLEL BENCH VICE</b> .... { 4   $4\frac{1}{2}$   5   $5\frac{1}{2}$   6   7   8   inch Jaws. 55/0 60/0 65/0 70/0 75/0 95/0 120/0   each.
976		<b>PORTABLE PARALLEL VICE</b> { 120/0   130/0   150/0   "
976		<b>Black Staple Bench Vice</b> , 0/7 per lb.; if Patent Spherical Washers, $\frac{1}{4}$ d. per lb. extra.
977		<b>Bright ditto</b> , 0/8 per lb.; ditto ditto ditto.
1001		<b>Compound Slide Rest</b> , see Price with Turning and Screw Cutting Lathes, page 26.
1008		<b>Permanent Railway Cramps</b> , 0/7 per lb.

Drilling Pillars  
48 L

Brace & Cramp

973

Cast Steel  
Chipping  
Chisels

48 K

48 E Joiners Bench Screw

48 F

48 G

48 H Crank Brace

48 I Cramp Drill Brace

48 J

48 K

48 L

48 M Improved Gas Pipe Wrench

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

48 K

48 L

48 M

48 N

48 O

48 P

48 Q

48 R

48 S

48 T

48 U

48 V

48 W

48 X

48 Y

48 Z

48 A

48 B

48 C

48 D

48 E

48 F

48 G

48 H

48 I

48 J

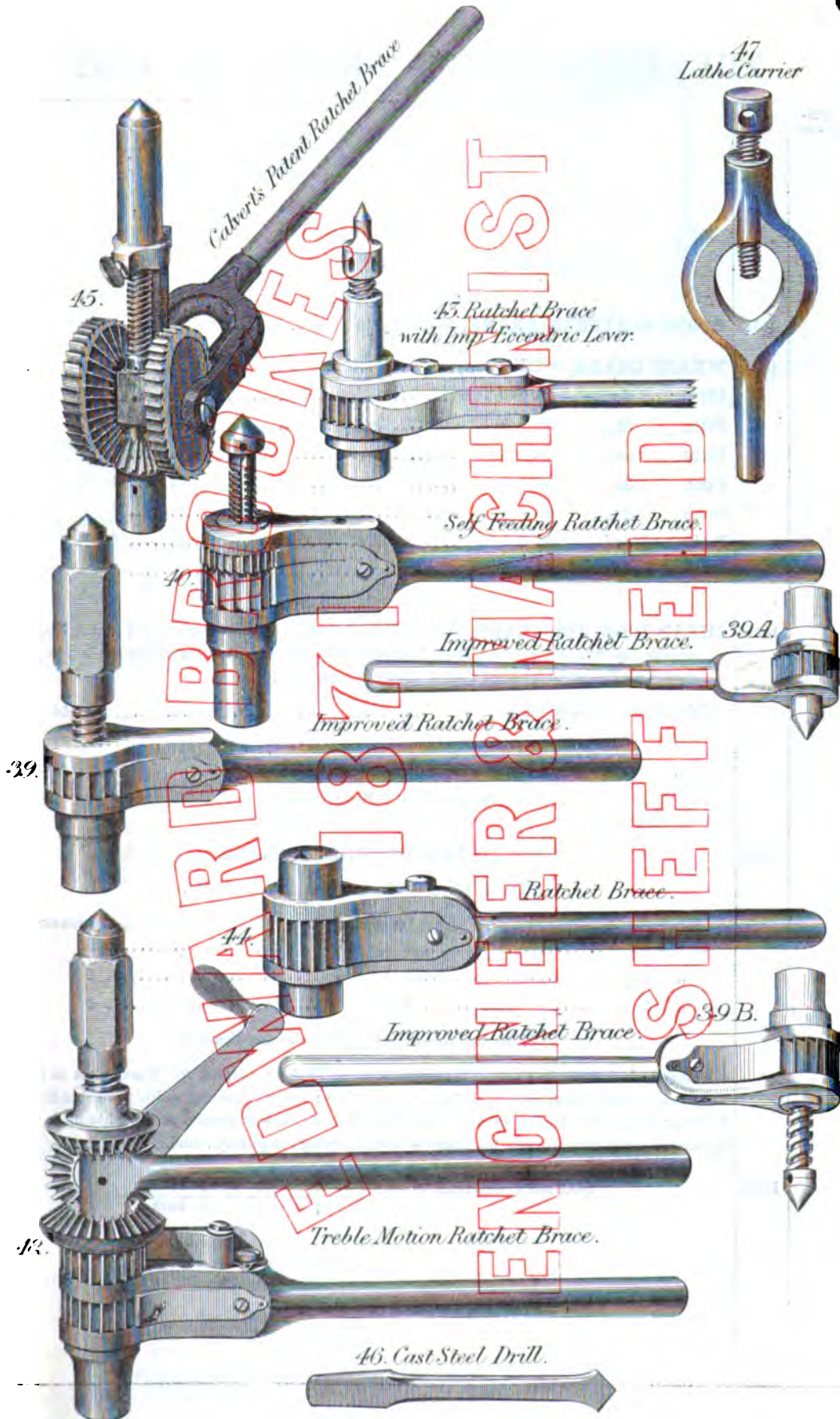
48 K

48 L

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	

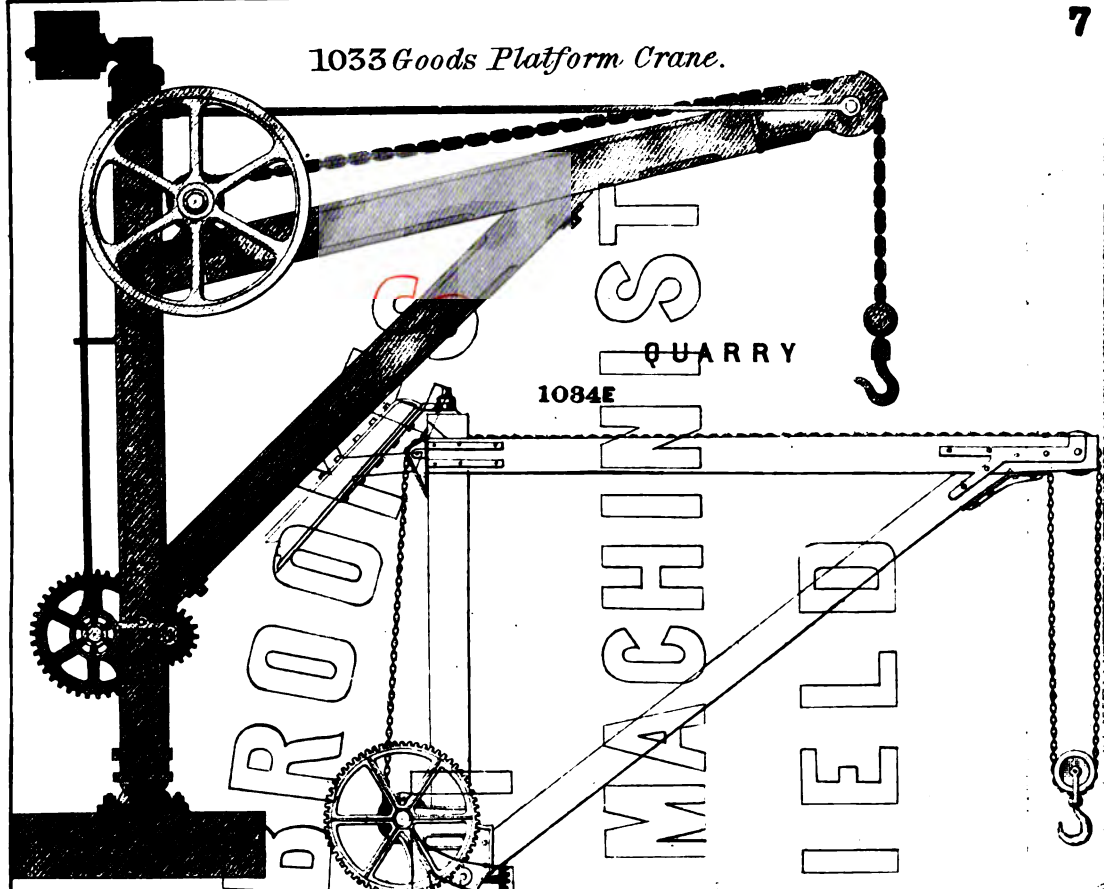




## THE ILLUSTRATED SHEFFIELD LIST.

DIS- COUNT.	No.	
	1033	<b>GOODS PLATFORM CRANE, to Lift 1, 2, 3 Tons</b> ..... £                      to £                      each.
	1034	<b>WHARF CRANE, to Lift 1 Ton</b> ..... £                      "
		Ditto do., do. 2 Tons..... £                      "
		Ditto do., do. 3 " ..... £                      "
		Ditto do., do. 4 " ..... £                      "
		Ditto do., do. 5 " ..... £                      "
		Ditto do., do. 6 " ..... £                      "
		Ditto do., do. 8 " ..... £                      "
		Ditto do., do. 10 " ..... £                      "
	1034A	<b>CHEAP IRON JIB CRANE, with Bolts and Nuts, and Cast Brackets and Plates, adapted for outside buildings where it would be inconvenient to fix any apparatus within the building, to be used with Patent Differential Pulley Blocks (see page 11).</b>
		Price of Crane to Lift $\frac{1}{2}$ Ton ..... £6 0 0
		" " 1 " ..... £7 5 0
		" " 2 " ..... £8 15 0
		Height, about 6 Feet; Radius, 3 Feet.
	1034c	<b>PILLAR OR WHARF CRANE, TO LIFT FROM 3 CWT. TO 3 TONS.</b>
		CAST IRON.                      WROUGHT IRON.
		To Lift 1 Ton ..... £                      £
		" 2 " ..... £                      £
		" 3 " ..... £                      £
		These are made any size and to suit any situation.
		May be had either in Cast or Wrought Iron or Timber; adapted for Warehouses or Railway Purposes, having 3 motions—Quick, Medium, and Slow: one for hoisting quickly weights from 2 to 10 Cwt.; slower for weights of 15 to 30 Cwt.; and the slowest motion for weights up to 3 Tons. Speeds are easily changed, and the Crane is made to swing completely round.
	1034B	<b>QUARRY CRANE, to lift</b>   2   4   6   Tons. Each.

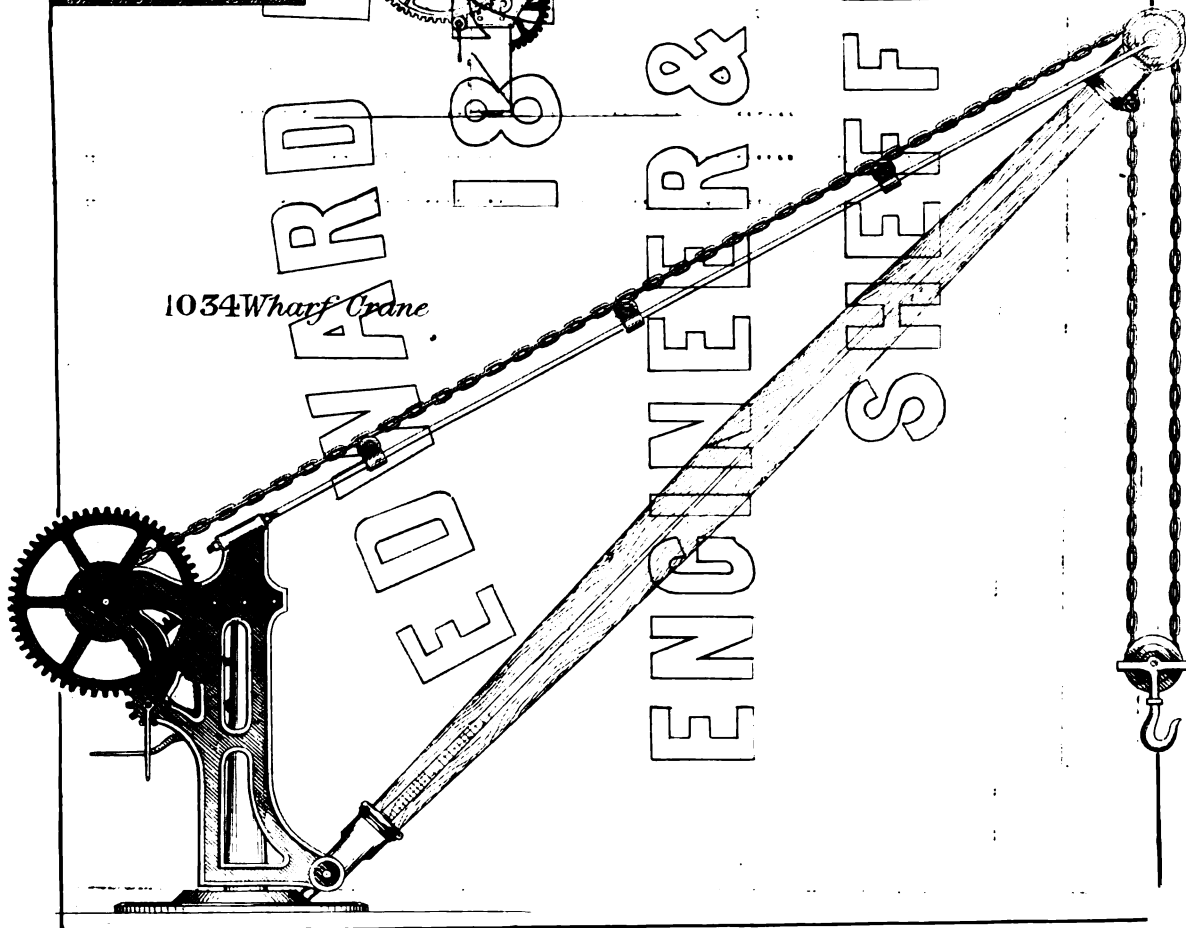
1033 Goods Platform Crane.



1084E

QUARRY

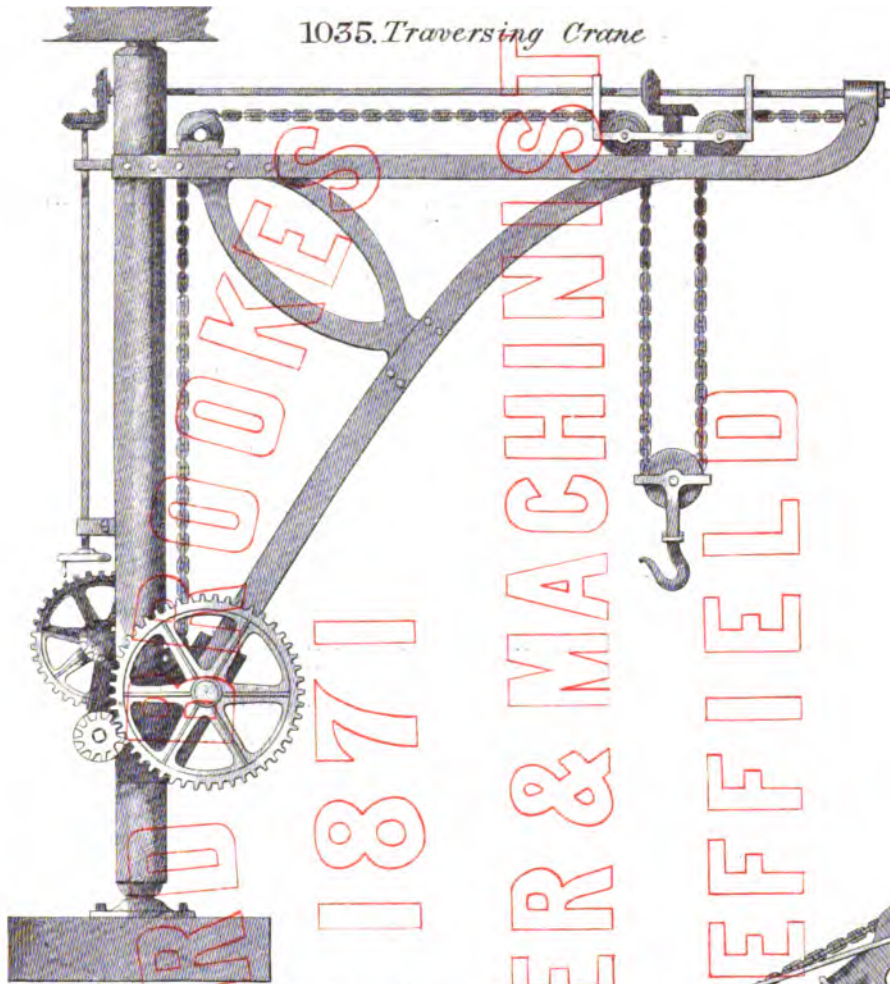
1034 Wharf Crane.



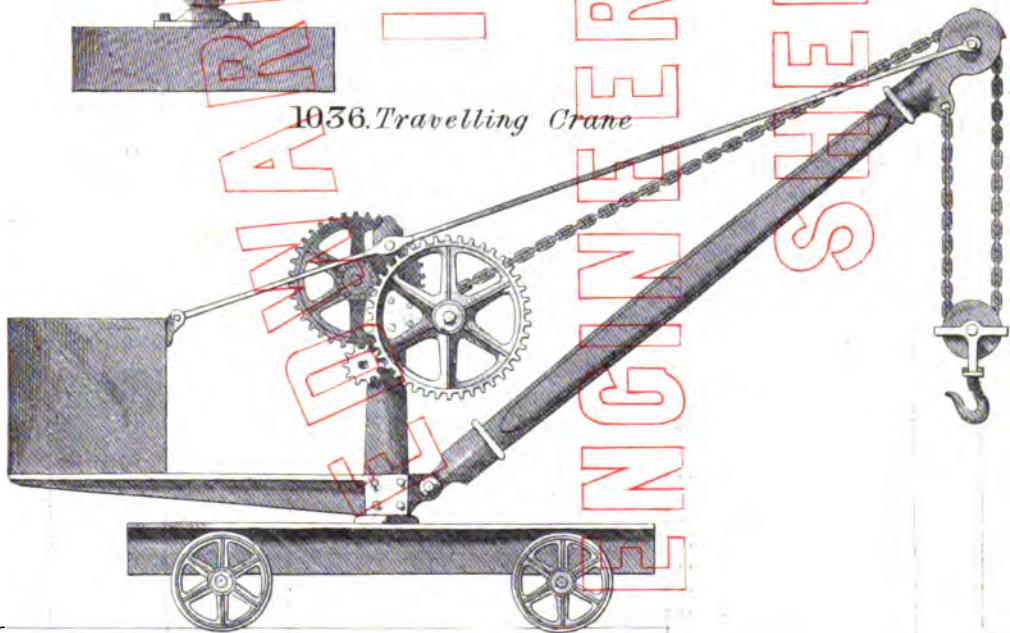




1035. *Traversing Crane*



1036. *Travelling Crane*



# THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.  
1034B

IRON JIB CRANE,

WITH CRAB TO LIFT DIRECT FROM BARREL. Height, 8 Feet; Radius, 6 Feet, for WAREHOUSES, FACTORIES, MILLS, &c.

PRICES, with Crabs and 50 Feet of Chain, including Top Carriage, Foot Bracket, Plates, and Bolts, complete.

To Lift  $\frac{1}{2}$  Ton.....

" 1 " .....

" 1½ " .....

" 2 " .....

£17 0 0

£30 0 0

£24 10 0

£27 0 0

1034D

HENDERSON'S PATENT DERRICK.

SWEEP.'

2

3

4

6

8

10

Tons.

30 Feet.....

35 " .....

40 " .....

45 " .....

50 " .....

60 " .....

Each.

1034E

SHIP DECK CRANE,

to lift

1

2

Tons.

Each.

1034G

STEAM WINCHES,

with Single and Double Cylinders, with and without Reversing Gear. They are calculated to lift the stated weights with a steam pressure of 40 lbs. They are supplied with Brakes, and arranged to be worked by Hand Power when the Steam is down.

Single Purchase.

Without Reversing Motion.

Double Purchase.

With Reversing Motion.

£

s.

d.

£

s.

d.

1036B

STEAM CRANE, TO SWING THREE QUARTERS ROUND BY HAND.

8 Horse Power Steam Crane, with 2 Cylinders, and Single and Double Purchase Gearing, to Lift 3 Tons .....

If fitted with Link Motion, extra .....

7 Horse Power Steam Crane, similar to the above, but with one Cylinder, and Single Purchase, only to Lift 30 Cwt. ....

If fitted with Link Motion, extra .....

4 Horse Power Steam Crane, similar to 7 Horse Power, but to Lift 1 Ton .....

If fitted with Link Motion, extra .....

Quotations will be given for Engines of any power required.

1036C

STEAM WHARF CRANE.

To Lift 2 Tons, and radiate by Steam.....

" 3 " ditto .....

" 5 " ditto .....

" 10 " ditto .....

This Crane has two Cylinders, fitted with Link Motion for Reversing, Single and Double Purchase Gearing, and the radiating motion can be given in either direction, without stopping or reversing the Engine, and the lifting and radiating motion can both be at work at the same time.

PORTABLE CRANE, to Lift 5 Tons, and Radiate by Steam. (Prices on application.)

OVERHEAD STEAM TRAVELLING CRANE. (Prices on application.)

SHIP ANCHORS.

SIZE.

COMMON.

BODGERS'

TROTMAN'S.

PORTER'S.

MARTIN'S

Per Cwt.

Per Cwt.

Per Cwt.

Per Cwt.

Per Cwt.

Per Cwt.

$\frac{1}{2}$  to 1 Cwt. ..

1 to 2 " ..

2 to 3 " ..

3 to 5 " ..

5 to 20 " ..

20 to 25 " ..

25 to 30 " ..

30 to 35 " ..

35 to 40 " ..

40 to 45 " ..

45 to 50 " ..

50 to 55 " ..

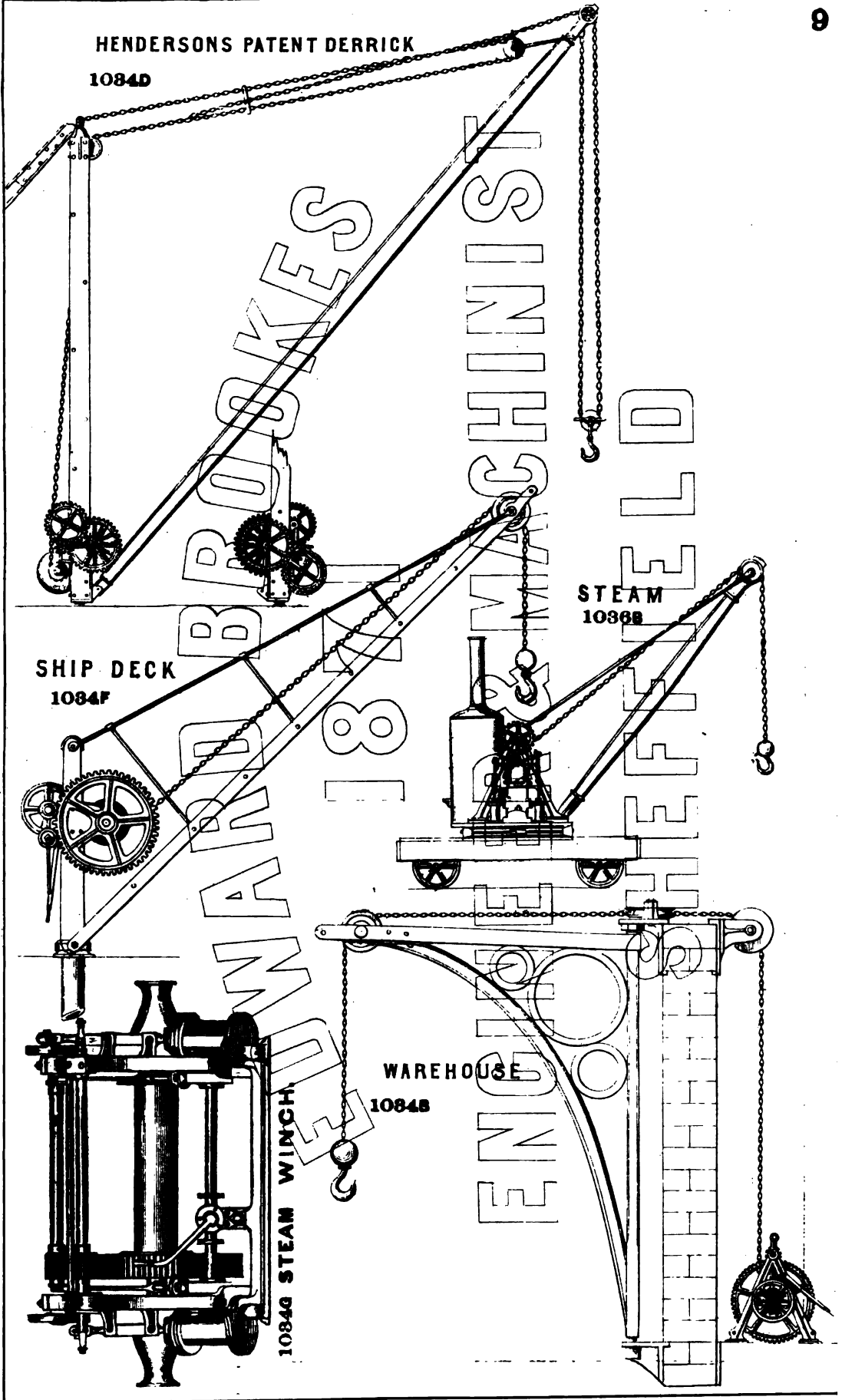
55 to 60 " ..

Larger Sizes, if required.



HENDERSONS PATENT DERRICK

1084D



SHIP DECK  
1084F

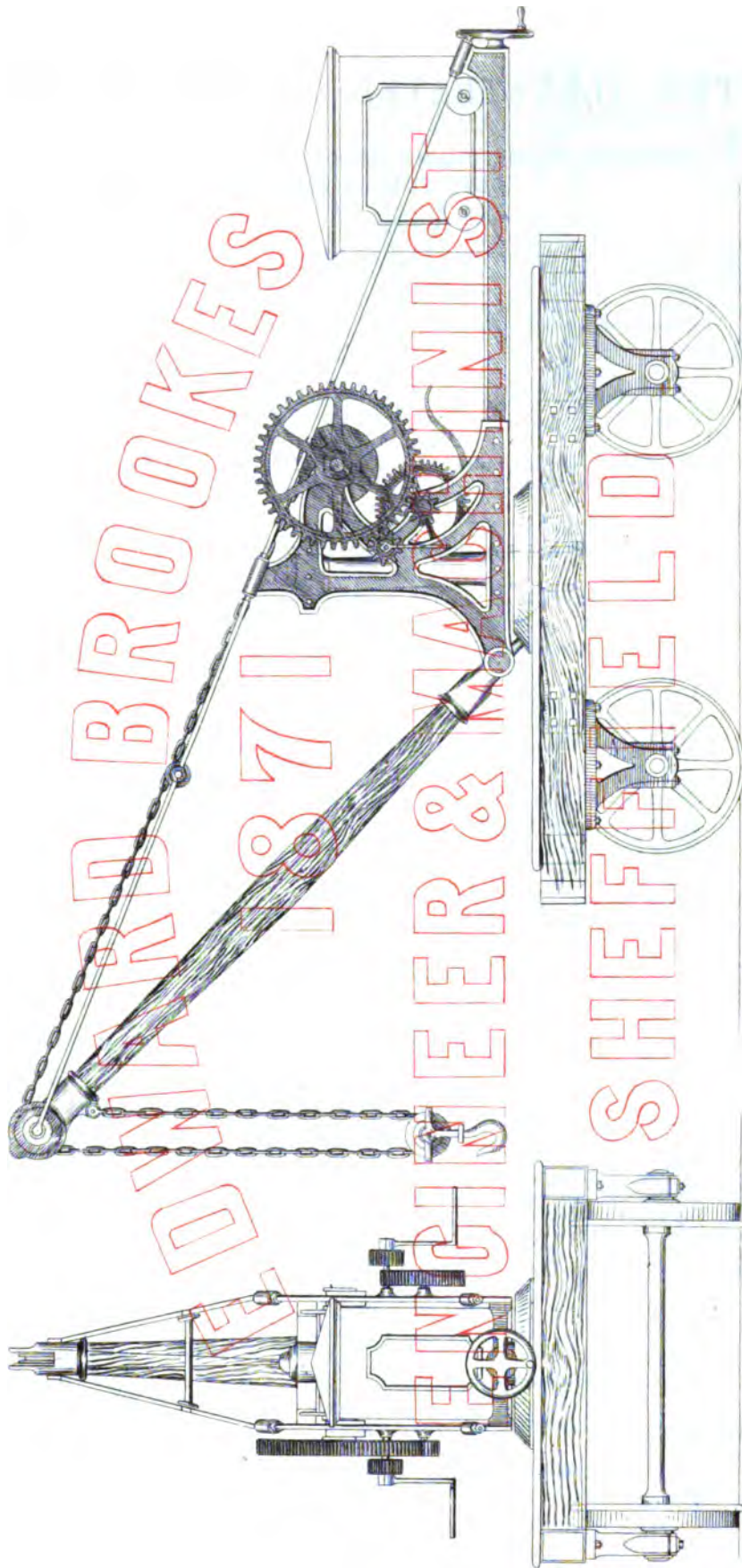
STEAM  
1086B

WAREHOUSE  
1084B

1084G STEAM WINCH

# THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	



1036A. TRAVELLING CRANE.



Dis-  
count.

No.  
556A

IMPROVED FLOOR CRAMP, 22/0 each.

BEST PULLEY BLOCKS, warranted Quality.

	2½	3	4	5	6	7	8	inch diam. of Pulley Blocks	inch width of Groove.
978 One Sheave .....	6/0	7/0	10/6	18/0	26/0	34/0	44/0	each.	
979 Two .....	8/6	10/6	16/6	24/0	32/0	44/0	56/0	"	
980 Three .....	10/0	14/0	20/0	34/0	42/0	54/0	68/0	"	
981 Four .....	14/0	18/0	28/0	40/0	50/0	66/0	88/0	"	
Brass Sheave Blocks.....	1/0	1/6	2/6	5/6	7/6	9/6	13/6	per Sheave extra.	

PULLEY BLOCKS.

	2½	3	3½	4	4½	5	6	7	inch diam.
1 and 2 Sheaves.....	12/0	14/6	17/6	22/0	28/0	36/0	46/0	56/0	per pair.
2 and 3 .....	15/0	18/0	21/0	28/0	38/0	46/0	56/0	66/0	"

	1½	5-16	3	7-16	1½	9-16	5	11-16	1½	1	1-16	inch.
Short Link Ship Chain, tested..	33/6	28/0	25/0	22/6	20/6	19/6	18/6	18/0	17/9	17/0	16/6	16/6 cwt.
Best Best Crane Chain .....		36/6	31/6	28/0	25/6	24/3	23/6	23/0	22/9	21/9	21/3	21/3 "

1 to 1-16 1½ to 2 2½ to 2½ inch.

Stud Chain Links .....	16/6	16/0	15/6	per cwt.
Ditto, if Best Best, 2/0 per cwt. more, proved to Admiralty test.				

	8 oz.	12 oz.	1	1½	1½	2	2½	3	4	lbs.
Fine Coil Chain.....										
Hame Swivels, per lb.; Trace Swivels, per lb.										
Back Bands, 1, with Swivel; Back Bands, 2, with Swivel.										

	9	10	11	12	Link.
Best Cart Traces.....					per cwt.
Best Plough Traces .....					"
Ditto, for Scotch Market .....					"
Best Shoulder Chains; ditto, Long Link, Common Hook, per cwt.					
Short ditto ditto .....					
Best Short Link, Best Swivel Hook .....					
Cow Ties, 3 Chain, per doz.; Derby Ring, per doz.; Jointed Ring, per doz.					

1030 CRAB WINCHES, to Lift with 2 and 3 Sheave Pulley Blocks:—

Single Purchase Crab, to Lift 20 Cwt., \$3 5 0. Break extra, 18/0 each.												
Ditto ditto, " 30 " \$4 10 0. Ditto, 20/0 "												
Ditto ditto, " 40 " \$5 0 0. Ditto, 24/0 "												

1031 Double Purchase Crab, " 3 Tons, \$7 0 0. Ditto, 30/0 "

Ditto ditto, " 4 " \$8 10 0. Ditto, 40/0 "												
Ditto ditto, " 6 " \$10 0 0. Ditto, 48/0 "												
Ditto ditto, " 8 " \$12 0 0. Ditto, 54/0 "												

If Brass Bushed, 2 to 4 Tons, 24/0; 6 to 8 Tons, 30/0 extra.

1032 Treble Purchase Crab, to any power.

LIFTING AND TRAVERSING JACKS.

Height with Screw down .....	10	12	15	18	21	24	27	30	36	42	inch.
1037 Bottle Lifting Jack, to Lift .....	28/	33/	40/	52/	67/	82/	100/	125/	155/	195/	each.

To Lift

1038 Tripod Lifting Jack, with Brass Bush.....	48/	48/	57/	72/	86/	105/	125/	155/	190/	250/	each.	
1039 Lifting Jack, with Foot Lift .....							140/	165/	215/	275/	"	
1040 Haley's Patent Lifting Jack .....							160/	180/	240/	340/	"	
1041 Cylinder Case Jack, ditto .....	60/	70/	80/	100/	120/	140/	170/	200/	250/	320/	"	
1042 Tripod Jack, Improved Ratchet Lever .....	65/	75/	85/	110/	130/	150/	180/	210/	260/	330/	"	
1042A Windlass Screw Jack, Single Purchase .....		115/	125/	135/	155/	185/	230/				"	
1042B Ditto ditto, Double ditto .....						210/	245/	285/	360/		"	
1043 Traversing Jack, with Double Ratchet Lever..						180/	200/	220/	240/	280/	360/	"

1043A Patent Hydraulic Lifting Jacks,

	will Lift	2½	4	6	8	10	12	15	20	30	40	50	60	tons.		
Height ....	18	23	24	25	26	26	26	26	28	28	28	28	28	inches.		
Will run out	7	10	10	11	12	12	12	12	12	11	11	10	10	inches.		
	\$3	\$6	10	\$8	\$9	5	\$12	\$12	\$14	10	\$17	10	\$20	\$22	\$26	\$30

1043B Patent Hydraulic Traversing Jacks ..

	4	6	8	10	12	15	20	tons.			
	\$9	\$10	10	\$12	\$14	10	\$17	\$18	10	\$21	10

1043C Patent Differential Pulley Blocks, tested to.....

	5	10	12	20	30	40	cwts.
	20/0	30/0	33/0	40/0	55/0	65/0	per set.

Bright B.B. Chains .....

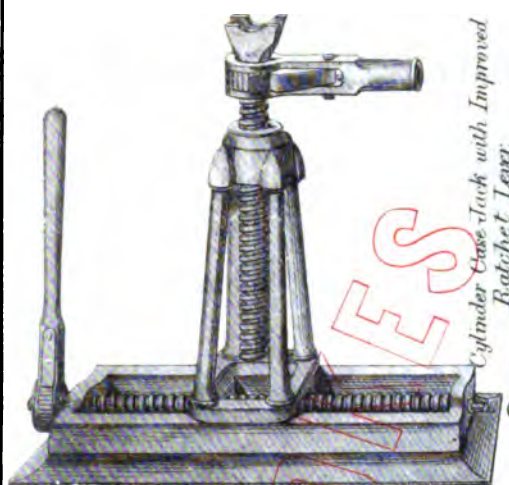
	1/6	1/6	7/7	9/9	10/10	10/10	per foot
--	-----	-----	-----	-----	-------	-------	----------

With Ratchet, by which one man can lift the weight specified, tested to

	1	1½	2	3	tons.
	53/0	65/0	72/6	107/6	per set.

Bright B.B. Chains .....

	9/9	10/10	10/10	10/10	per foot
--	-----	-------	-------	-------	----------



1043, Patent Traversing Jack.

Cylinder Base-Jack with Improved Ratchet Lever.



1041.

Tripod Jack with Improved Ratchet Lever.

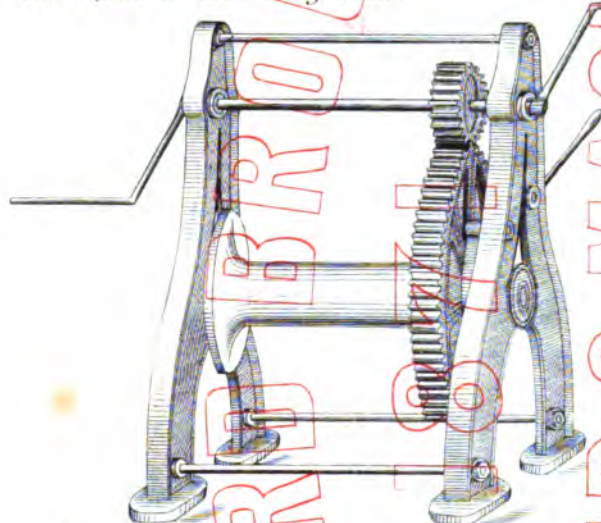


1042.

Haley's Patent Jack.



1040.



1030, Single-Purchase Crab.

Tripod Jack.



1038.

Bottle-Jack.

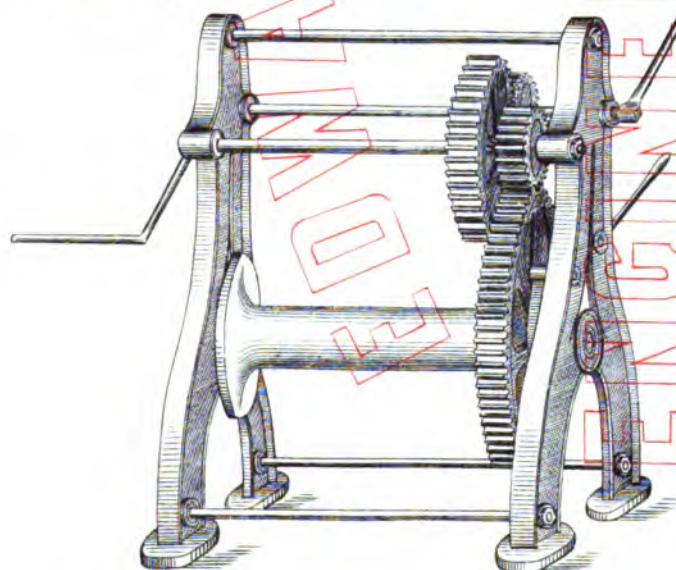


1037.

Lifting Jack.



1039.



1031, Double-Purchase Crab.

Pulley Blocks



978.



979.



980.

Nº 556A

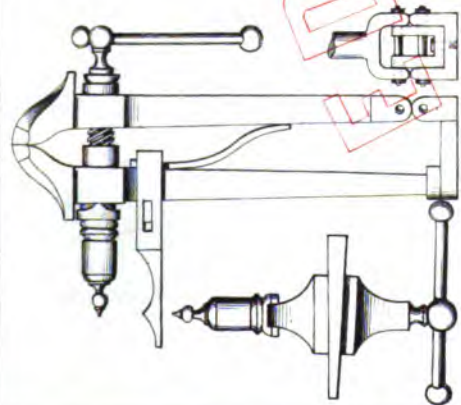
Improved Floor Cramp



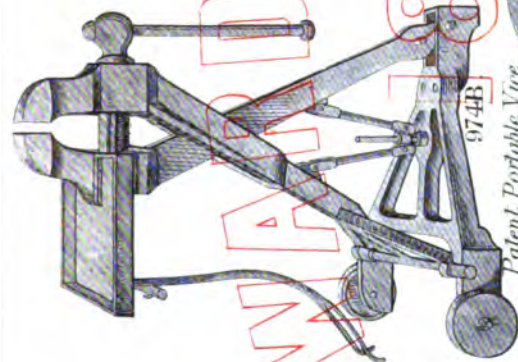
## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
	48a	Gas Pipe Wrench, with Three Loose Jaws:— <div> <div>For <math>\frac{1}{2}</math> <math>\frac{3}{4}</math> <math>1</math>   <math>1\frac{1}{2}</math> <math>1\frac{3}{4}</math> <math>2</math>   inch. For Iron Pipe.</div> <div>6/0   8/0   12/0   each.</div> </div>
	73	Hand Vice, Black .....   3   $3\frac{1}{2}$   4   $4\frac{1}{2}$   5   $5\frac{1}{2}$   6   inches. 28/0   30/0   32/6   37/0   49/0   60/0   75/0   per dozen.
	74	Ditto, with Key, 12/0 per doz. more than No. 73.
	75	Common Hand Vice.....   22/0   22/0   26/0   30/0   35/0   42/0     „
	76	Lancashire Bench Vice ....   1   $1\frac{1}{2}$   $1\frac{1}{2}$   $1\frac{3}{4}$   2   $2\frac{1}{2}$   $2\frac{1}{2}$   $2\frac{3}{4}$   3   lbs. each. 8/0   8/6   9/2   10/0   10/8   11/3   11/8   12/1   12/6   each. <div> <div><math>3\frac{1}{2}</math>   <math>3\frac{1}{2}</math>   <math>3\frac{3}{4}</math>   4   <math>4\frac{1}{2}</math>   <math>4\frac{1}{2}</math>   <math>4\frac{3}{4}</math>   5   lbs. each.</div> <div>13/0   13/4   13/9   14/6   15/0   15/6   15/10   16/6   each.</div> </div>
	77	Common ditto.....
	77A	Beck Irons .....   1   $1\frac{1}{2}$   2   $2\frac{1}{2}$   3   $3\frac{1}{2}$   4   lbs. each. 23/0   27/0   30/0   36/0   42/0   48/0   54/0   doz.
	974A	Parallel Vice, for Planing Machine .....   8   10   12   14   inch. 100/0   110/0   120/0   135/0   each. Ditto ditto, Swivel Bottom, 60/0 each extra.
	974B	Patent Portable Vice .....   5   6   7   inch Jaws. 120/0   130/0   150/0   each.
	974C	Adjustable Bench Vice, 10d. per lb.
	974D	Mechanics' Portable Work Bench, with Pillar Drilling Machine, Vice, and Box for Tools, £ ea.
	1044	Improved Pipe Cutter.....   $\frac{1}{2}$ $\frac{3}{4}$ $1$   $\frac{5}{8}$ $\frac{3}{4}$ $1$   $1\frac{1}{2}$ $1\frac{1}{2}$   $1\frac{3}{4}$ 2   inch Iron Pipe. 20/0   25/0   30/0   35/0   each.
	1060	HAND PUNCHING AND SHEARING MACHINE, for $\frac{3}{8}$ Plates, £
	1061	Eccentric Punching Machine, on Stand.
<p style="text-align: center;"><b>PLATE BENDING MACHINES.</b></p> <p style="text-align: center;">For Straightening or Bending Plates to any Curve.</p>		
	No. 1.—Fitted with Three Rollers, 7 inch diameter, 4 feet long.....	£
	„ 2.—Ditto ditto, 9 ditto, 6 ditto .....	£
	„ 3.—Ditto ditto, 12 ditto, 8 ditto .....	£
	„ 4.—Ditto ditto, $14\frac{1}{2}$ ditto, 12 ditto .....	£

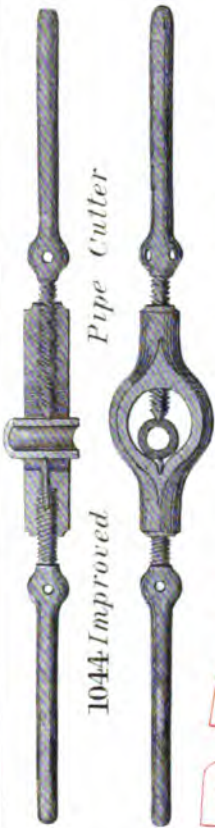




974C. Adjustable Bench Vice.

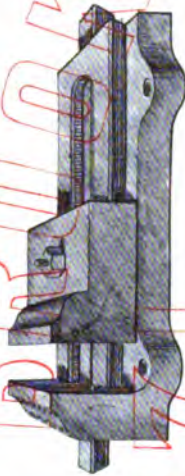


974B. Patent Portable Vice.

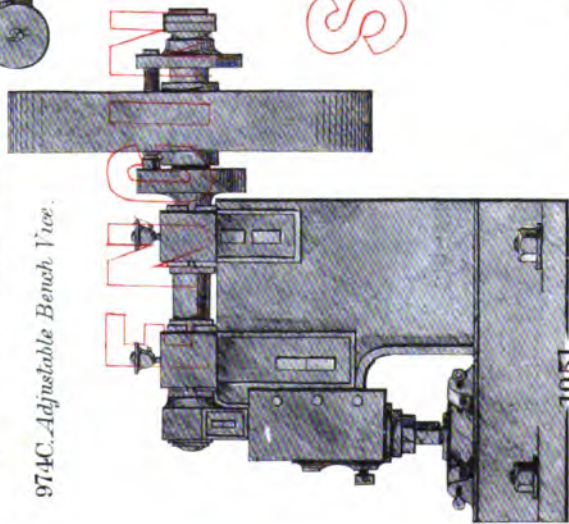


1044. Improved Pipe Cutter.

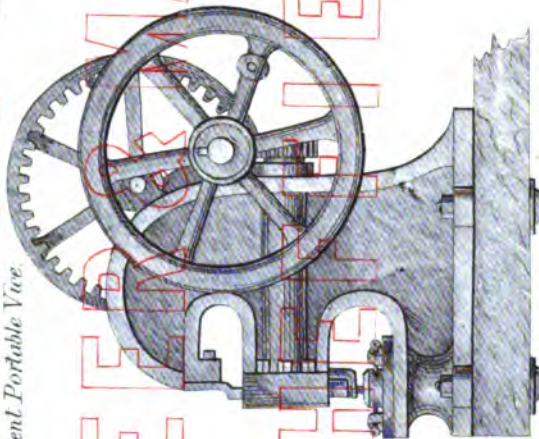
48R. Gas Pipe Wrench.



974A. Parallel Vice for Planing Machine.



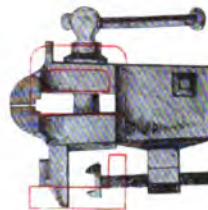
1051. Eccentric Punching Machine. (on Stand.)



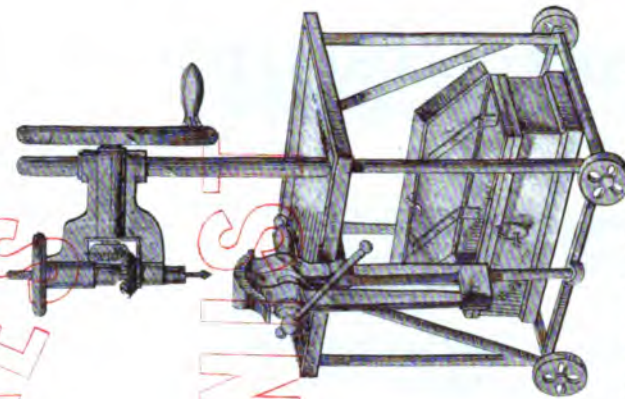
1050. Hand Punching and Shearing Machine.



73. Hand Vice.



76. Bench Vice.



974D. Pillar Drilling Machine, with Portable Vice, Bench & Box.

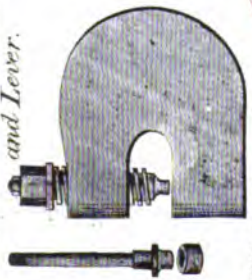
# THE ILLUSTRATED SHEFFIELD LIST.

Dns.  
COUNT.

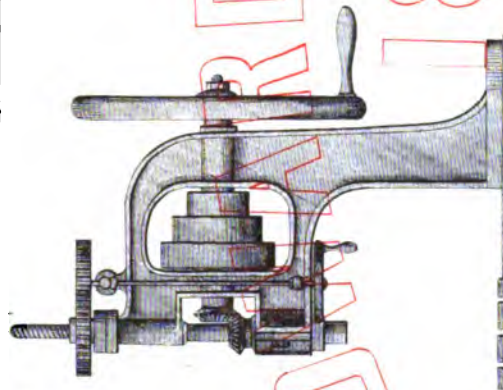
No.	FLY PRESSES.										
			2	3	4	5	6	7½	10	cwt.	
997A	FLY PRESS, double Side .....										
1001A	Amateur Foot Lathe, with Planed Metal Bed, Standards, Crank, and Driving Wheel, Hand Rest, Face Plate, and Two Centres ..... £6 14 0										
1007A	Bench Drill, for Hand and Steam Power..... 36 42 48 inches high. 260/0 360/0 460/0 each.										
1007B	Pillar Drilling Machine, £5.										
1052	Boiler Bear and Lever, with Three Beds and Punches ..... 80/0 95/0 110/0 inch down. each.										
1052A	PATENT HYDRAULIC PUNCHING BEAR.										
	No. 1, will Punch ¼ inch through ½ inch Plate, 64 lbs. weight ..... £10 0 0										
	" 2, " 1 inch " ½ inch " 120 lbs. " ..... 15 0 0										
	" 3, " 1½ inch " 1 inch " 320 lbs. " ..... 22 0 0										
	Extra Punch and Die, per pair ..... 0 14 0										
	Space from Centre of Punch to back of Gap, 1½ inch.										
	This Machine can be worked in any position, and can be adapted to work either by hand or power.										
1052B	THE "DUPLEX" PATENT LEVER PUNCH.										
	No. 1, will Punch ½ inch by ½ inch, 25 lbs. approximate weight ..... £8 0 0										
	" 2, " ¾ inch by ¾ inch, 42 lbs. ditto ..... 9 0 0										
	" 3, " 1 inch by 1 inch, 89 lbs. ditto ..... 12 0 0										
1052C	PORTABLE BOILER PROVER, FOR TESTING BOILERS, PIPES, TANKS, &c.,										
	Fitted with Gauge, to register 200 lbs. per square inch, Suction Pipe, and Union Connections, a piece of flexible Delivery Pipe, terminating with a ½ Boiler Screw and Brass Union, complete, £8 8 0										
1052D	PATENT HYDRAULIC PRESS, for Linseed, Olive, and other Oils:—										
	150 Tons, with 2 Pumps, weight, 21 cwt. .... £45 0 0										
	200 Tons, do. do. 28 cwt. .... 56 10 0										
	These Presses are sent out complete, all put together ready for use, requiring no erection, but merely the Cistern filling with water.										
1052E	HYDRAULIC PRESS, Portable 8 inch Ram, 12 inch Stroke, for forcing wheels on or off their Axles .....										
	Ditto, arranged for Testing Carriage and Railway Springs .....										
	COPYING PRESSES.										
1101	Note Size, 8 by 10 inches ..... 35/0 each.										
1102	Large Post, 10 by 12 inches ..... 38/0 "										
1103	Foolscap, 10 by 15 inches ..... 55/0 "										
1104	Large Folio, 12 by 18 inches ..... 75/0 "										
1105	Small Embossing Presses, with Dies complete ..... 28/0 "										
	VERTICAL SAW FRAME.										
1106	Vertical Saw Frame, for all kinds of Curved Work ..... £33 0 0										
1107	Saw Buckles made to order.										
1108	Grinding Stone & Trough   12   14   16   18   21   24   30   36   42   48   54   60   in. diam. 35/   40/   45/   50/   55/   60/   70/   85/   100/   120/   140/   160/   each.										
	Ditto, to work by Steam Power, charged extra.										



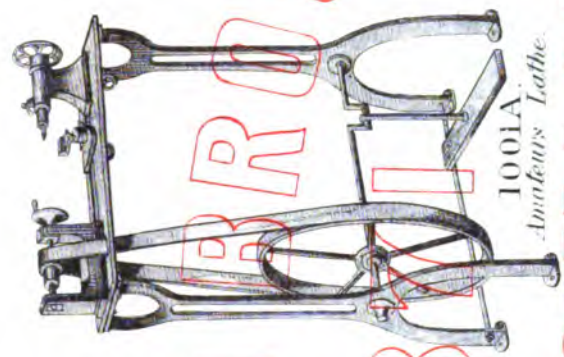
With Three Beds and Punches  
and Lever.



1052, Bottle Filler.



1007A Bench Drill 36 Inch and upwards.



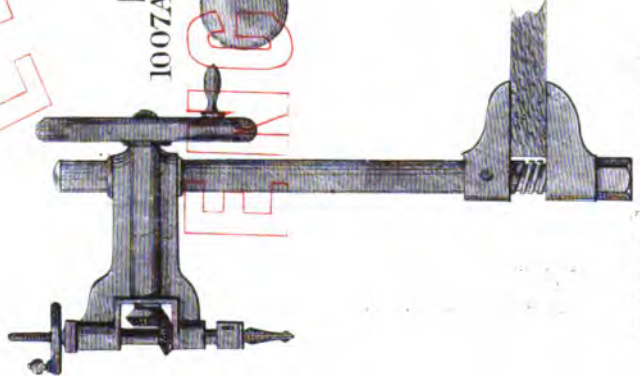
1001A.  
Amieus' Lathe.



Standard Gages  
1102.



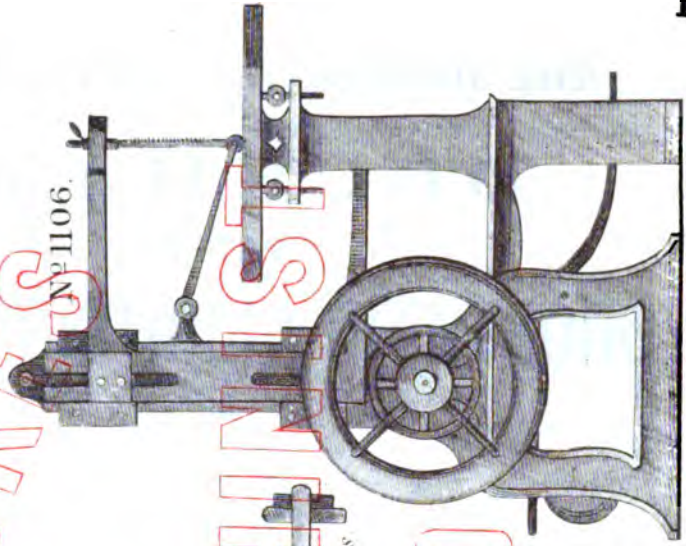
COPYING PRESS,  
1102, for Letter or Note Size.



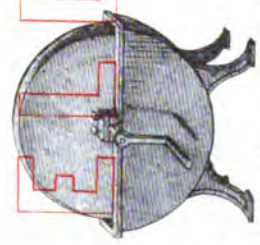
Pillar Drilling Machine.  
1007B.



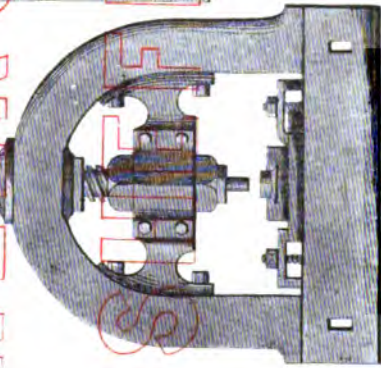
1107, Saw Buckles.



VERTICAL SAW FRAME.  
1106.



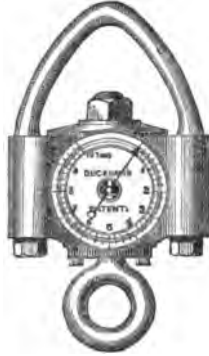
Grinding Stone and Trough.  
1108.



997A, Fly Press.



# DUCKHAM'S PATENT HYDROSTATIC WEIGHING MACHINES.



The cheapest and most portable ever invented.

They are entirely self-acting, and indicate the weight of even the most ponderous goods during the ordinary operation of loading or unloading.

They combine extreme simplicity and unlimited power with general utility, low price, and costlessness in working.

Immediately the goods are lifted they are weighed.

These Machines may also be employed as DYNAMOMETERS in any position at any angle.

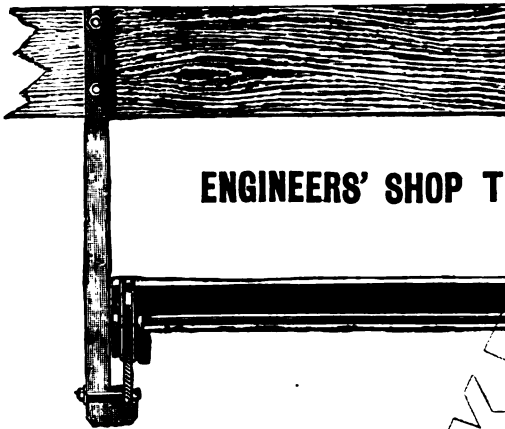
## SIZES AND PRICES.

				£	s.	d.
3 Tons Capacity, about 50 lbs. weight	.....			14	10	0
5    "               "    60    "	.....			16	10	0
10   "               "    90    "	.....			20	0	0
20   "               "   180   "	.....			28	10	0
30   "               "   250   "	.....			36	0	0
50   "               "   450   "	.....			50	0	0

Machines of Ball Shape, combined with overhauling Ball of a Crane, £1 to £2 extra, according to weight of Ball.

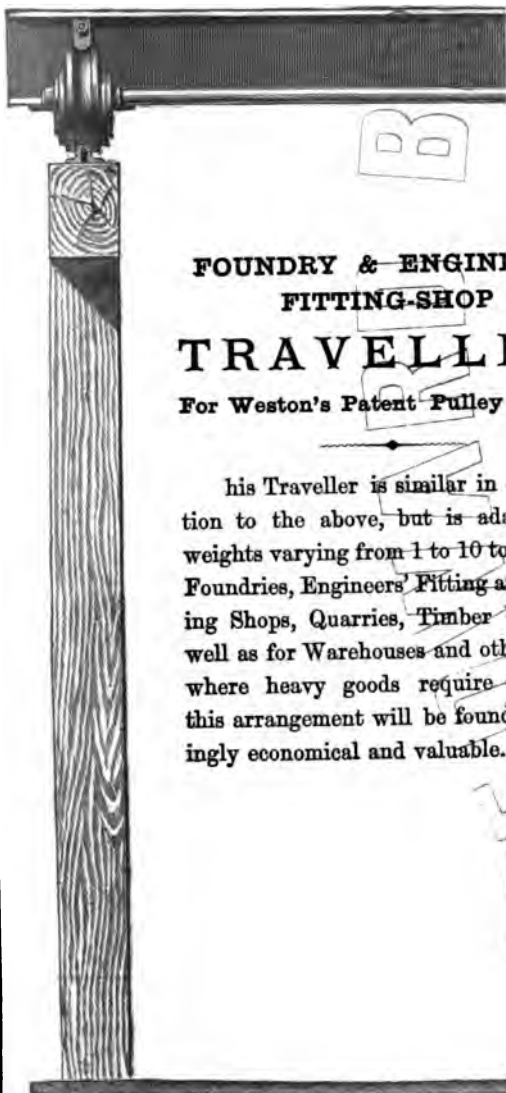
The system admits of no limit in power, and Machines may be made to order up to any capacity.

Those of 10, 20, 30, 40, and 50 cwt. capacity, same price as 3 ton Machines.



ENGINEERS' SHOP T

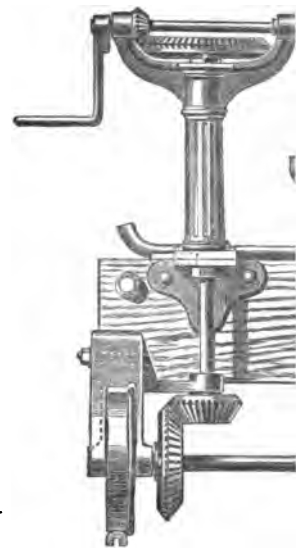
Price of Traveller for 10 feet span, as also Brackets and Rails for 10 feet longitudinal traverse; without Pulley Blocks .....



FOUNDRY & ENGINE FITTING-SHOP  
TRAVELL  
For Weston's Patent Pulley

his Traveller is similar in construction to the above, but is adapted for weights varying from 1 to 10 tons. It is used in Foundries, Engineers' Fitting and Filing Shops, Quarries, Timber Yards, and elsewhere where heavy goods require lifting. This arrangement will be found to be very economical and valuable.

IMPROVE

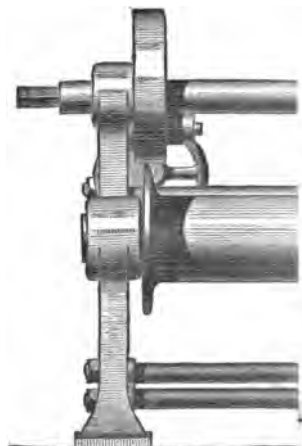


Estimates for either iron or steel supplied on receiving particulars.

WITH BREAK,

To lift with Single Sheave Block	
4 Tons .....	2
6 " .....	3
12 " .....	6

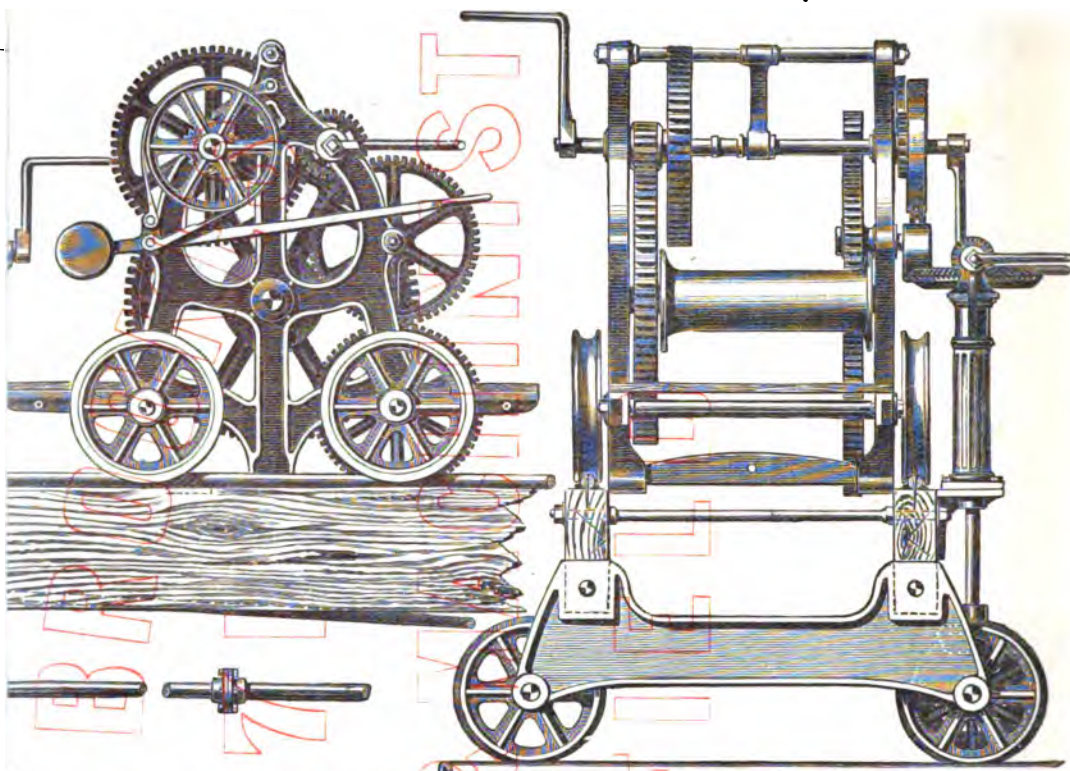
POWER



To lift directly from Bars	
No. 20 .....	12 Tons
" 21 .....	18 " "

# E ILLUSTRATED SHEFFIELD LIST.

## D OVERHEAD TRAVELLING CRANE, FOR HAND POWER.



For wood gantry, tie bolts for same, iron tension rods, shaft to connect the two carriages, and travelling rails, can be supplied. For tropical countries, wrought-iron girders are recommended in preference to wood.

### CRABS, AND WOOD PLATFORM.

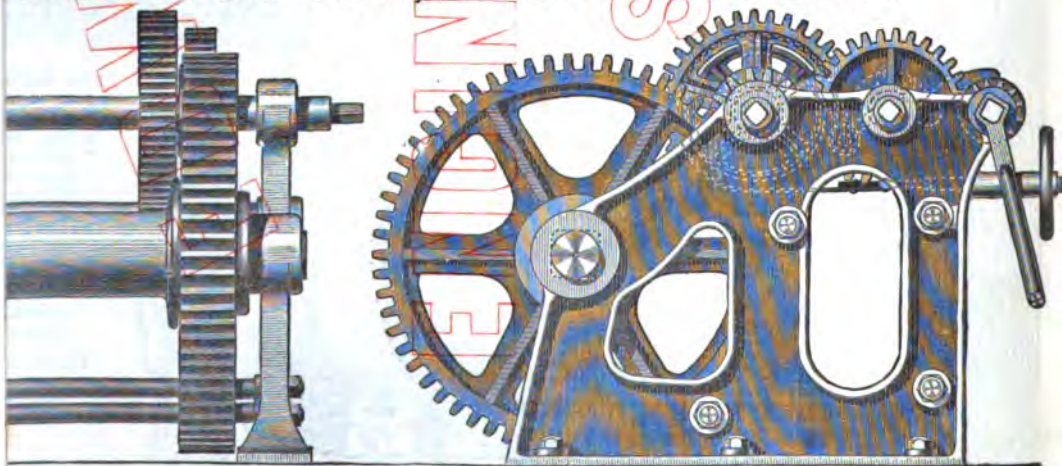
PRICE.				Weight.
		Owt.	Qrs.	Lbs.
296	16	0	0	17
31	0	0	0	20
38	0	0	0	29

### LONGITUDINAL TRAVELLING GEAR, AND TWO GANTRY CARRIAGES.

PRICE.				Weight.
		Owt.	Qrs.	Lbs.
218	10	0	0	11
16	10	0	0	16
19	10	0	0	18

Brass Bushing Crabs, 37/6, 47/6, and 60/0 each extra.

## POWERFUL HOISTING CRABS, WITH IMPROVED BREAK.



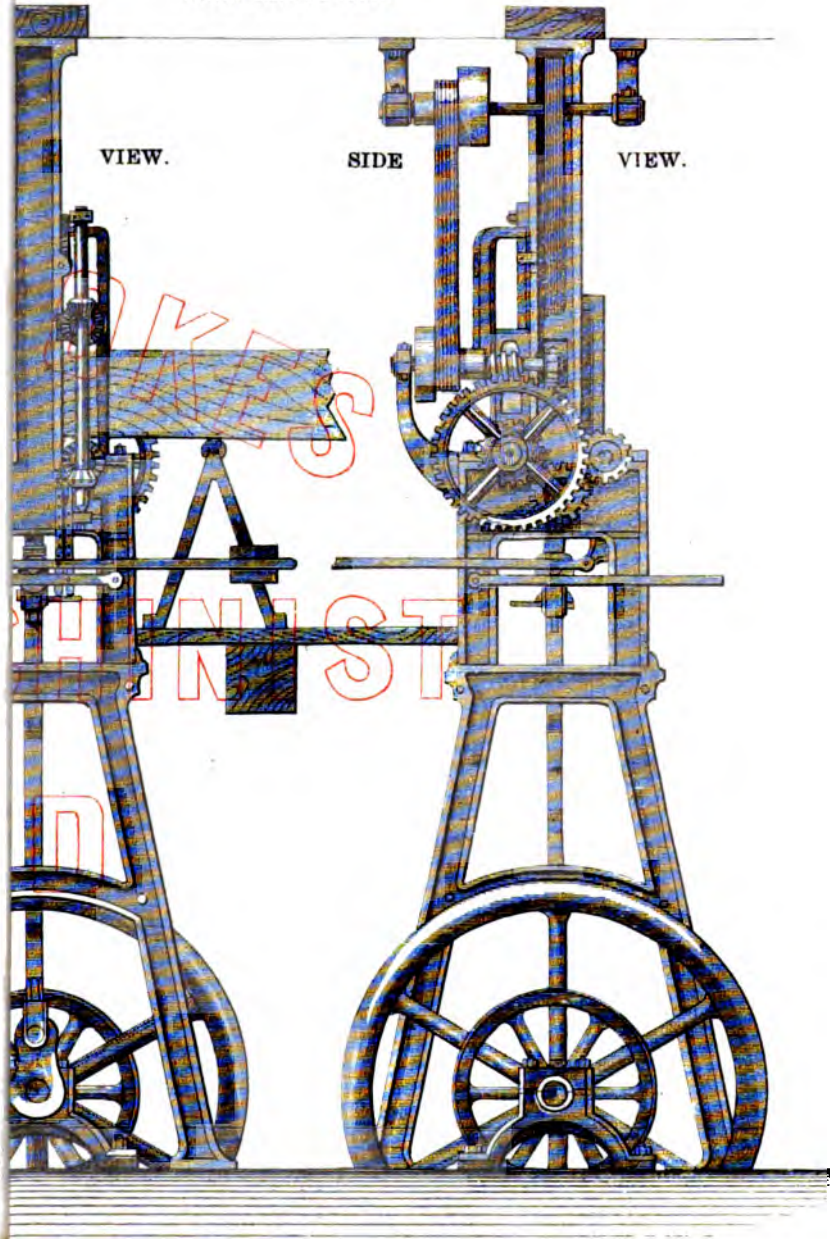
### SUITABLE FOR GOVERNMENT AND RAILWAY USE.

Size of Barrel.	Weight.	PRICE.	If with Weston's	Brass Bushing,
In. In.	Owt. Qrs. Lbs.	With Break.	Patent Break.	extra.
30 by 8	25 0 0	236 0 0	239 0 0	12 10 0
42 by 9	35 0 0	50 0 0	54 0 0	3 0 0



FRAME,

FITTED-UP WITH 2 LOOSE SKELETON FRAMES, £ s. d.  
SIDE ELEVATION.



DEAL FRAME.



2

6

.

# MBER FRAME,

FEET 6 INCHES, AND 4 FEET WIDE—MADE TO ORDER.

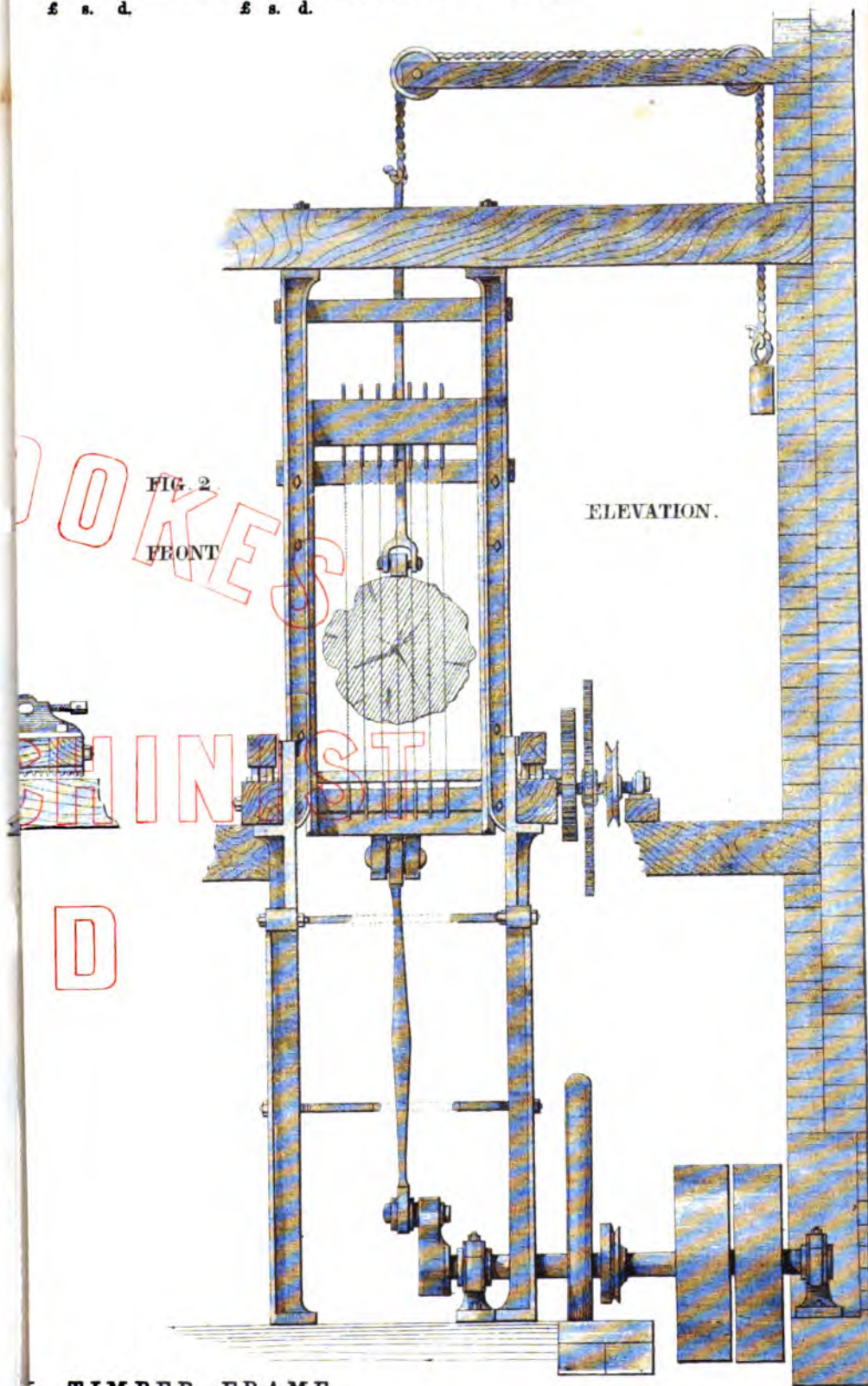
£ s. d.

£ s. d.

FIG. 2.

FRONT

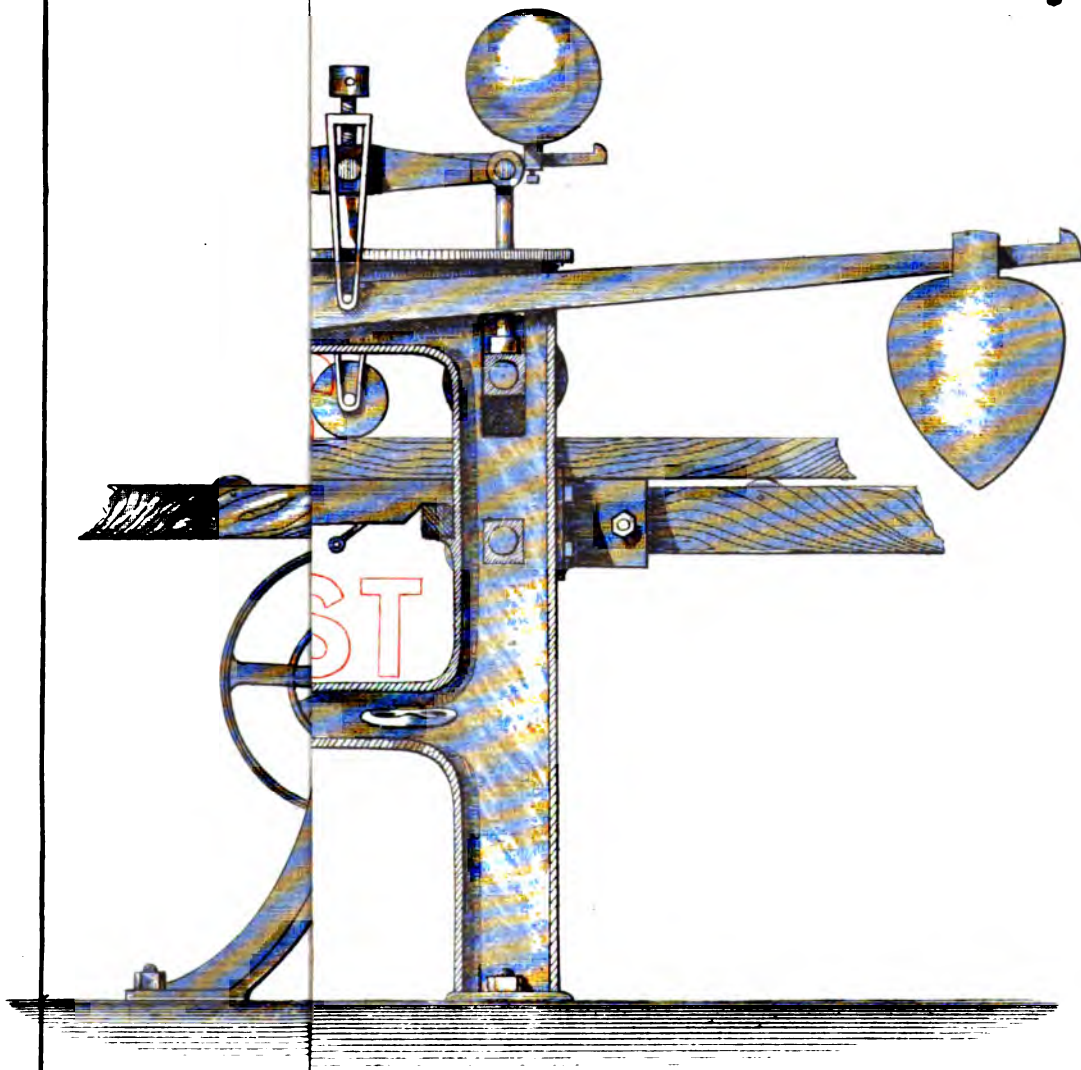
ELEVATION.



L TIMBER FRAME.



# MACHINE, SKETTING.





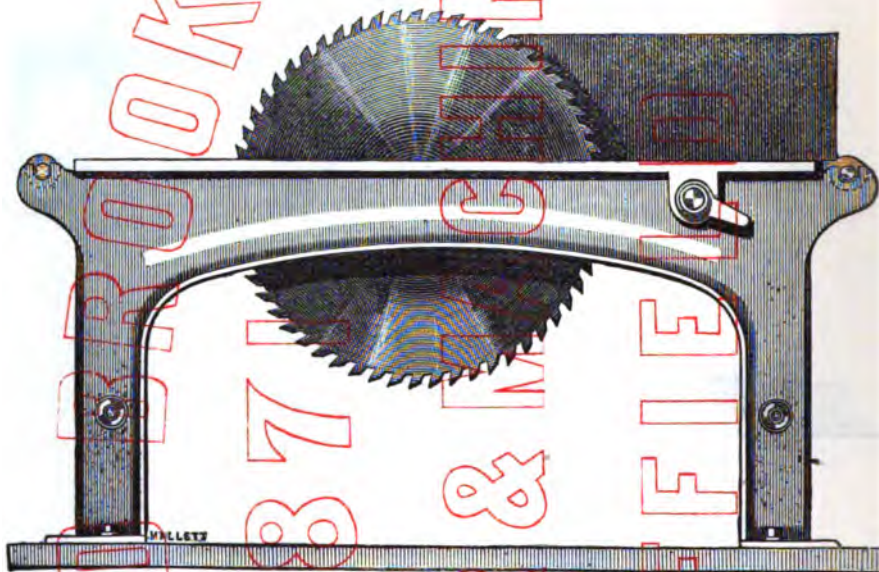
## THE ILLUSTRATED SHEFFIELD LIST.

DIS-  
COUNT.

No.

994A

PLAIN CIRCULAR SAW BENCH.

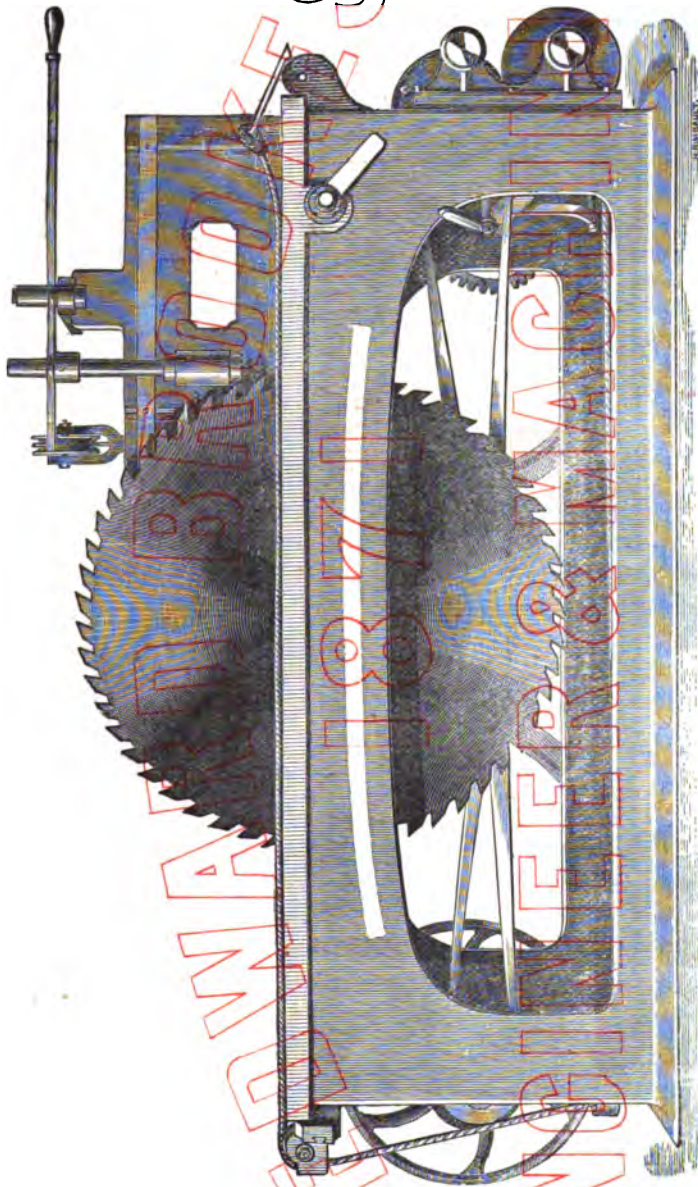


This Bench has been constructed to meet the wants of Agriculturists, Builders, Shippers, and others, who require a cheap Bench for easy transit from place to place, or for Export. It is readily and easily taken to pieces, packs in small compass, and can be put together again without the assistance of a skilled workman. The table top is Cast-Iron, planed perfectly true, the sides and ends are in one piece, the Spindle runs in long Gun Metal bearings, and is fitted with driving pulley, turned perfectly true. The Fence is strong, simple, and easily adjustable: turned rollers are fixed at each end of the Bench to carry the timber while sawing.

Size of Table,	To take a Saw	Driving Pulleys,	Price
5 feet by 2 feet, 6 inches.	36 inches diameter.	10 inches diameter.	£ s. d.
Loose Pulley and throw-off Gear .....			2 10 0
Boring Table and Bits .....			6 0 0

No. 994B.

SELF-ACTING CIRCULAR SAW BENCH.

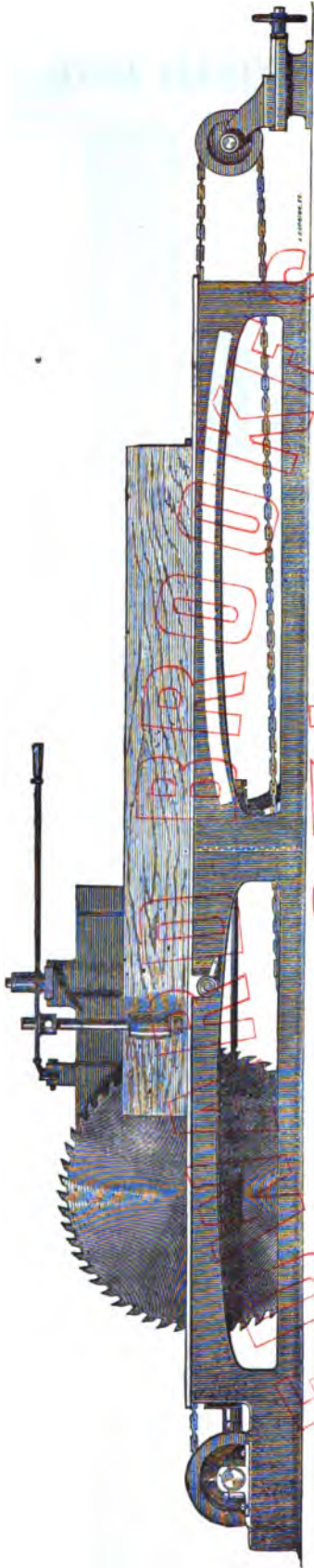


This Bench is adapted for cutting planks, deals, and battens, at speeds varying from 15 to 60 feet per minute. The saw spindle is made of the best scrap iron (or steel, if preferred), and runs in long gun-metal bearings, the outer end of which is supported by an outside standard. Self-acting feed-motion is attached, specially designed with a view to economy in space and efficiency in working. The force can be set at an angle, for cutting feather-edge boards, and always maintains a parallel position with the saw, whatever be the angle at which it may be placed. If the Bench be required for cross-cutting, the fence can be removed with very little trouble. The framing and table-top being cast in one piece, great strength, combined with portability, is obtained. No brick foundation is required, its own weight being sufficient to keep it steady while working.

To take a Saw.	To Cut.	Size of Table.	Driving Pulleys.	Price.
80 inch diameter.	15 inch deep.	6 ft. 9 in. by 9 ft. 9 in.	13 inch diameter.	\$75 0 0
45 " "	18 " "	6 ft. 0 in. by 8 ft. 0 in.	14 " "	\$85 0 0
45 " "	21 " "	7 ft. 0 in. by 8 ft. 8 in.	16 " "	\$97 10 0
64 " "	24 " "	7 ft. 6 in. by 8 ft. 6 in.		\$110 0 0

No. 994C.

SLEEPER CUTTING SAW BENCH, WITH CONTINUOUS CHAIN-FEED.



This Bench is specially constructed for cutting railway sleepers. It differs from an ordinary Self-acting Saw Bench, in having an endless chain in place of a rope, to drag the timber up to the saw. By this arrangement a great amount of wear and tear is avoided, and time gained, as loose dogs are attached to any part of the chain, and taken out as soon as the saw is through the wood; by this means a continuous motion is obtained. A clutch and lever is provided, to throw the feed-motion out of gear when required. The Bench can be used for ordinary sawing, and for longer cuts than is required for sleeper cutting, by having the chain lengthened, and the chain wheel carried farther away from the saw to give the necessary tension to the chain.

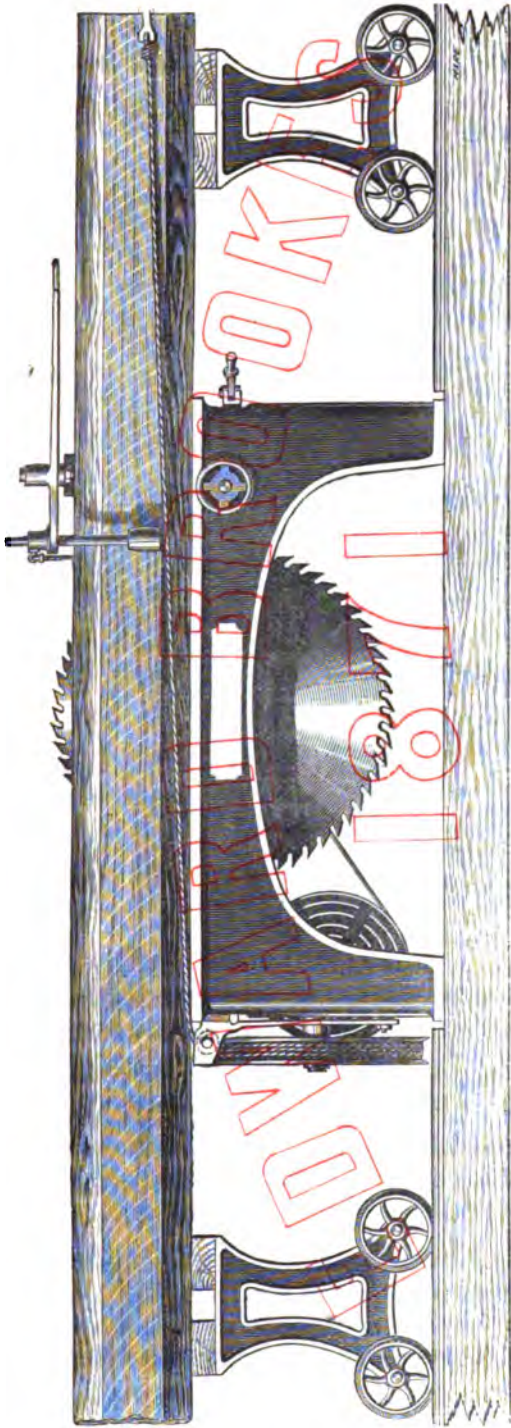
The Bench is made strong and compact, to stand any amount of rough usage, and the working parts are so arranged as to bring down the wear and tear to the lowest possible point. Three gun-metal bearings are provided for the saw-spindle to run in, giving a large amount of bearing surface.

	TO TAKE A SAW.	SIZE OF DRIVING PULLEYS.	HORSE-POWER.	WILL CUT.	PRICE.		
					£	s.	d.
No. 1.	48 inches diameter.	16 inches diameter.	8 horse.	20 inches deep.			
No. 2.	54 "	18 inches diameter.	10 horse.	23 "			



No. 994D.

PATENT SELF-ACTING SAW BENCH.



This is the most perfect Self-acting Saw Bench yet brought out, being fitted with all the most improved arrangements for sawing either timber or deals. The patented improvement consists in a new and very simple arrangement for feeding the timber up to the saw, which not only obviates the many disadvantages attending the employment of the complicated system of spur and bevel wheels, which has hitherto been employed for the purpose, but enables the makers to offer these Benches at a very considerable reduction on the prices of ordinary Self-acting Saw Benches. The feed motion is driven from the saw spindle, and can be varied so as to bring the timber forward at rates ranging from 15 to 60 feet a minute. The feed rope is coiled round a large drum at the end of the bench, and the gearing by which it is worked is boxed in and effectually protected by the framing of the machine. When the feed motion is thrown out of gear, the rope readily uncoils from the barrel, which runs round freely upon a fixed pin. The fence is adjustable to suit at any required angle, and is provided with a lever and roller, with weight for holding the timber close to its face; it is fitted with a screw adjustment, by means of which its distance from the saw can be regulated with the utmost nicety; and when not required it can be readily removed, so as to leave the table clear for cross-cutting. The saw spindle is entirely of steel, and works in three pairs of gun-metal bearings, two of which are fixed in plunger blocks, bolted to the under side of the table, and the third bearing is carried in an independent cast-iron standard, which is bolted to the floor, and carries the end of the saw spindle outside the driving pulleys. The main framing of the Bench is all made in one casting, and combines immense rigidity and strength with comparative lightness, and every part of the machine is fitted with the utmost nicety. A pair of strong iron carriages, running on rails, is frequently supplied when the Bench is required for cutting timber, for carrying the ends of the log. They are made of two sizes, as under:—

Sizes.	Size of Table.	Weight without Carriages and Rails.	Weight with Carriages and Rails.	Average Power.	Diameter of Driving Pulleys.	Speed of Saw.	
						£	d.
No. 2, to work saws up to 38 in. diameter.	5 ft. 6 in. by 2 ft. 9 in.	20 cwt.	30 cwt.	6 horse.	14 inch.	1000 revolutions.	
No. 3, to work saws up to 48 in. diameter.	6 ft. 6 in. by 3 ft. 3 in.	28 cwt.	40 cwt.	8 horse.	16 inch.	800 revolutions.	

The carriages shown in the engraving at each end of the Bench are used, when sawing timber, for carrying the ends of the logs, but the Benches can be had either with or without them.

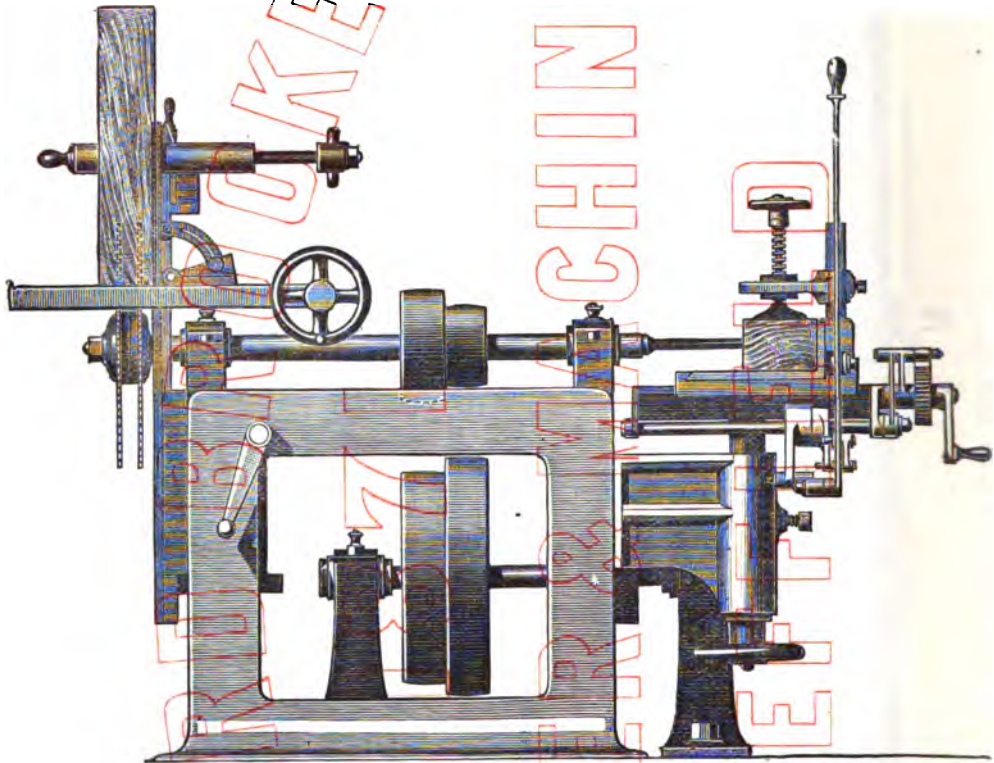


## THE ILLUSTRATED SHEFFIELD LIST.

No.

994

## THE JOINER UNIVERSAL.



END ELEVATION.

The JOINER UNIVERSAL; or, GENERAL JOINER, is a combination of Machines, specially constructed for the expeditious manufacture of JOINERY. The Machine illustrated is one of the simplest and best offered to buyers. It will take a saw 28 inches diameter, and therefore may be used as an ordinary Saw Bench, for cutting any kind of wood up to 10 inches deep, also for Cross-cutting, Thicknessing, Grooving, Tonguing, Rabbeting, Morticing, Boring, Tenoning (at one operation by using our PATENTED Disc-cutters, or by two saws, as illustrated), Moulding, Beading, Chamfering, Mitreing, Wedge-cutting, sticking Sash Bars—in short, as the name indicates, it is intended to supplant manual labour in the preparation of JOINERY.

The Spindle is a fixture and runs in long gun-metal bearings, the table being made to rise and fall, so that it can be adjusted to the given depth required to be cut by the saw. A slide, made to fit on the table for cross-cutting, a tenon-holder or cramp to fit on the fence for tenon-cutting, and a square block fitted to the end of a saw-spindle for moulding, are supplied with the Machine.

## THE ILLUSTRATED SHEFFIELD LIST.

No.

994r

## GROOVING AND REBATING BENCHES.

Scale,  $\frac{1}{4}$  inch to a foot.

These correspond in size to the Plain Saw Benches, but differ from them in having the spindles made to rise and fall for Grooving, Rebating, Tenoning, &c., &c. These Benches are peculiarly adapted for a Joiner's shop, where they can be used to great advantage for a variety of purposes, besides being always available as plain saw benches. If required, they are fitted with a boring table and slide plate, the augers being fitted into the end of the saw spindle.

A small adze block can be attached to the saw spindle, with cutters of any pattern for making mouldings, &c.

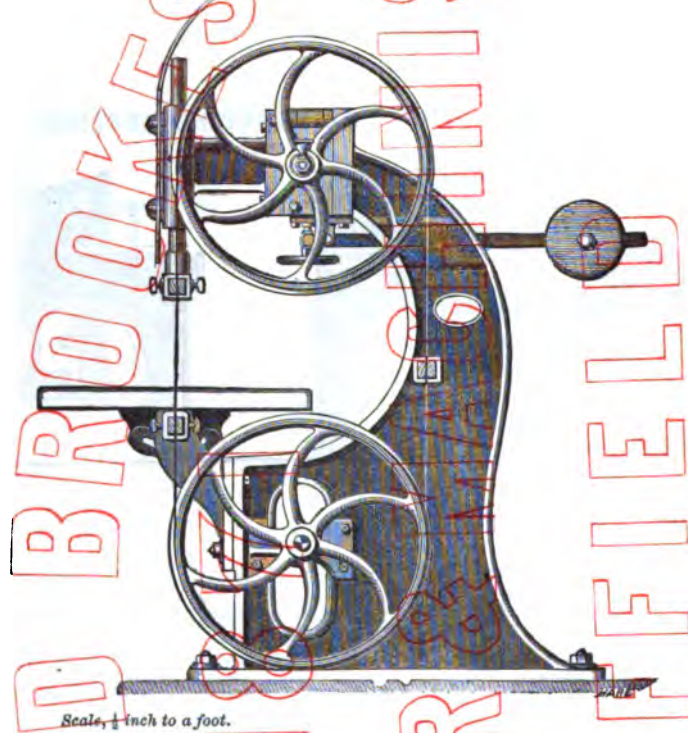
Size.	Weight.	Average Power required.	Diameter of Driving Pulleys.	Speed of Saws.	Price.		
					£	s.	d.
No. 1, to work saws up to 16 in. diameter .....	8 cwt.	1 horse.	6 inches.	1800 revs.			
No. 2 " " 24 do.	12 "	3 "	12 "	1500 "			

## THE ILLUSTRATED SHEFFIELD LIST.

No.

994g

PLAIN BAND SAW MACHINE.



These Machines are very strong and well fitted, the main framing being made in one casting of a strong section, and with a wide base, so that they are absolutely free from vibration when at work, and there is no undue strain on any part of the Machine.

The table, which is planed all over, is arranged to cant to any required angle for bevil sawing.

By simply changing the saw, the same Machine can be used for the finest ornamental work, or for cutting through large pieces of hard wood.

They are made in two sizes, as under :—

Sizes.	Weight.	Average Power required.	Diameter of Saw Pulleys.	Diameter of Driving Pulleys.	Revolutions per Minute.	Price. £ s. d.
No. 1, to cut 12 in. thick.	22 cwt.	About 2 horse.	30 in.	14 in.	400	
No. 2, " 18 "	33 "	" 3 "	42 in.	16 in.	350	



THE ILLUSTRATED SHEFFIELD LIST.

DIS-  
COUNT.

No.

994H

WALL BORING MACHINE.



Scale,  $\frac{1}{2}$  inch to a foot.

This machine is constructed to bolt against a wall, and is suitable for use in railway wagon shops, implement works, dockyards, &c., &c. It will bore holes of any size up to 3 inches in diameter and 12 inches deep.

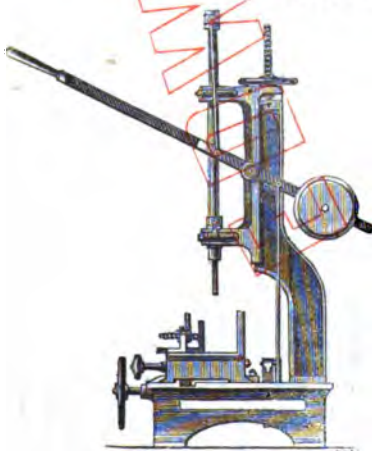
A cast iron table, having a turned top, is supplied with the machine, and a counter shaft with fast and loose riggers, not shown in the engraving, is included in the price quoted in the list.

The auger is brought down to the wood either by a hand lever or treadle, as may be preferred, and is taken up out of work by a counterbalanced weight, which works close to the wall. £ s. d.

Weight.	Average Power required.	Diameter of Pulleys on Counter Shaft.	Speed of Counter Shaft.
About 1 ton.	$\frac{1}{2}$ horse.	10 inches.	400 revs.

994I

HAND MORTICING MACHINE.



Scale,  $\frac{1}{2}$  inch to a foot.

The machine here represented is recommended to the attention of such as do not employ steam power, and with it a lad will do as much work as six men morticing with a hand chisel.

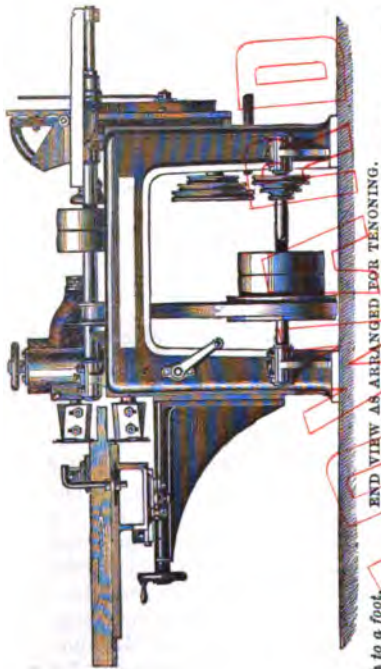
It will work chisels up to  $\frac{3}{4}$ -inch wide, and the slide which carries the cutter can be raised sufficiently high to take a door stile up to 11 inches deep. The table is fitted with all requisite movements for bringing the work into the required position under the chisel, and motion is given to the tool by the counterbalanced hand-lever shown in the woodcut.

An apparatus for tenoning is also sometimes supplied as an extra with the Hand Morticing Machine.

It is frequently fitted with an arrangement for boring, by giving a rotatory motion to the chisel spindle, but can be had either with or without this addition.

£ s. d.





Scale,  $\frac{1}{2}$  inch to a foot.

No. 994J.

The Machine represented above is a great improvement on the one in general use, and a good notion may be formed of its capabilities from the following brief statement of some of its most useful functions:—

- PLANING.**—It will work saws up to 20 inches in diameter, and saw stuff up to 7 inches thick. **CROSS-CUTTING.**—It will cross-cut wood up to 4 inches thick.
- MOULDING.**—It will plane, both sides and thickness in one operation, boards up to 7 inches wide.
- CIRCULAR MOULDINGS.**—It will cut single or double mouldings of any pattern, in any kind of wood, up to 5 inches wide.
- GROOVING.**—It will cut circular mouldings of any pattern, mould and rebate circular sashes, &c.
- MORTISING.**—It will make mortises from  $\frac{1}{4}$  inch to 2 inches in width. **TENONING.**—It will make perfect planed tenons in one operation.

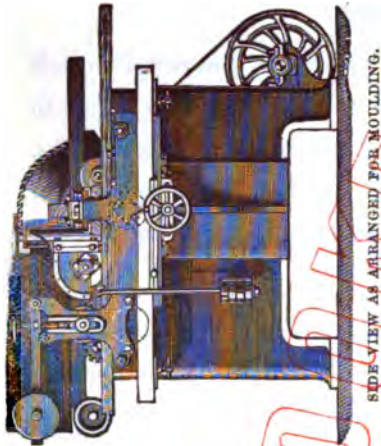
In addition to the above, the "Patent General Joiner" may be used for **REBATING and MOULDING Sash Frames, &c., MITRING, CHAMFERING, TONGUING, BEADING, and a great variety of other purposes.** It is worked by two lads, and will do the work of at least *thirty* skilled joiners.

- 1. The Tenoning Planing and Thicknessing, and Moulding operations can be carried on without interfering in any way with those that are done at the Sawing end of the Machine.
- 2. The Tenons are formed to one operation by cutters, which finish them into a more accurate than is the case where saws are employed for this purpose, as in other Machines of this class.
- 3. The wood to be Tenoned, which may consist of several pieces up to a total width of 18 inches, is clamped in a horizontal position upon a light sliding plate, instead of each piece being fired separately in a vertical position, as is the case in other General Joiners.

- 4. Tenons can be formed with shoulders of unequal lengths, by simply altering the position of one of the Tenoning blocks on its spindle.
- 5. It will plane both sides at once, and thickness boards up to 7 inches wide, and will cut single or double mouldings of any pattern in any kind of wood. In other Machines of this class, one side only can be planed at a time.
- 6. The wood being planed is fed through by a pair of revolving feed rollers, both of which are driven, by which means a greatly increased propelling power is obtained, and the rollers being perfectly smooth, do not indent the wood.

- 7. The top feed roller rises and falls to suit the irregularities in a rough board, and at the same time it is always exerting its full feeding power. The rate of feed can also be varied from 6 to 12 feet per minute, according to the nature of the wood being operated upon.
- 8. Instead of the long and cumbersome fence, which in other General Joiners is required to carry the tenoning slide, a light fence is substituted, which is arranged to turn over and hang down below the table, thus enabling the Machine to be used as a Cross-cut Saw Bench without interfering with the work going on at the other end of the Machine. In other Joiners this is impracticable, on account of the difficulty in removing the fence.

In addition to the advantages described above, and which alone would render this Machine far superior to any other of its class, the "Patent General Joiner" is guaranteed to be fully as effective in performing all the other operations usually done by General Joiners.



Side view as arranged for moulding.

PATENT "GENERAL JOINER."

Weight.	Average Power required.	Diameter of Pulleys on Saw Spindle.	Diameter of Pulleys on Bottom Shaft.	Speed of Saw Spindle.	Speed of Bottom Shaft.	Price. £ s. d.
26 cwt.	8 horse.	8 inches.	12 inches.	1,600 revs.	1,000 revs.	



## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

# ENGINEERS' TOOLS.

48A

## CIRCULAR SAW SPINDLES.

Complete with Pedestals, Brasses, Fast and Loose Pulleys, and Spanners.

1	1½	1½	1½	1½	1½	2	2½	2½	2½	3	inch diameter.
42/0	48/0	54/0	60/0	70/0	85/0	100/0	120/0	140/0	170/0	200/0	each.

48B

## CIRCULAR SAW SPINDLES, WITH IMPROVED METAL FRAMES.

1	1½	1½	1½	1½	1½	2	2½	2½	2½	3	inch diameter.
60/0	65/0	60/0	70/0	80/0	100/0	120/0	145/0	170/0	200/0	220/0	each.

994

## CIRCULAR SAW TABLE.

Complete with Planed Metal Top and Rollers, Spindle, Collars, Pulleys, and one Saw.

12	18	24	30	36	42	48	inches diameter.
£12 15/0	£16 10/0	£22	£28	£33 10/0	£40	£47	

Improved Parallel Fence or Gauge, for ditto, £6 10s.

Improved Feed Motion or Drag, for ditto, £7.

995

## SELF-ACTING CIRCULAR SAW BENCH.

Complete with Improved Parallel Fence, Spring Roller, Self-acting Drag, and one Saw.

30	36	42	48	54	60	72	84	inches diameter.
£45	£55	£65	£75					

Circular Saws, of best quality, for ditto.

996

## CIRCULAR GROOVING SAWS, LATHE TURNED, AND CUT TO ANY FORM OF TOOTH, OR TO ANY DIAMETER.

3-16	½	5-16	¾	7-16	¾	9-16	¾	¾	¾	1	inch thick.
1/8	1/9	1/10	2/0	2/2	2/4	2/6	2/6	2/9	3/0	3/8	per inch diameter.

997

## PUNCHING MACHINES AND FLY PRESSES, WORKED BY HAND OR POWER.

Weight, complete.....	1	2	3	4	5	6	7½	10	cwt.
Height of Casting.....	16	20	24	28	32	36	40	44	inches.
Price:—Worked by Hand .....	84/0	120/	166/	192/	240/	300/	360/	480/	each.
Ditto by Steam Power .....									each.

997A

## TRIANGULAR BAR TURNING LATHES, WITH FORK REST.

Length of Bed .....	14	16	18	20	22	24	26	28	30	inches.
Height of Centres.....	2½	2½	3	3½	3½	3½	4	4½	4½	"
Price .....	57/6	65/0	95/0	105/	115/	135/	165/	170/	190/	each.

## FOOT LATHES.

Complete with Planed Metal Bed, Standards, Anti-friction Treadle and Chain, Crank and Driving Wheel, Hand Rest, Face Plate, Drill Chuck, and Two Centres.

Height of Centres .....	4	4½	5	5½	6	7	8	inches.	
Length of Bed.....	3	3½	4	5	6	7	8	feet.	
1002 Single Gear Headstocks .....	£	10	11	12	15	18	22	28	each.
1003 Double Gear Headstocks.....	£	15	17 10/	21	25	30	40	50	each.
Complete for Sliding and Screw Cutting .....	£	33	36	40	45	50	60	70	each.
1004 Compound Slide Rests (Portable) .....	£	5	5 10/	6	6 10/	7	8	10	each.
Collar Plate, with Drill Rest .....									

## SELF-ACTING VERTICAL DRILLING MACHINES.

1006

Drilling Machines, including Cast Iron Base Plate, having a Vertical Slide, by Rack and Pinion, to admit an article 2 feet diameter, to Drill up to 1½ inch diameter; Driving Apparatus being self-contained..... Price £

1007

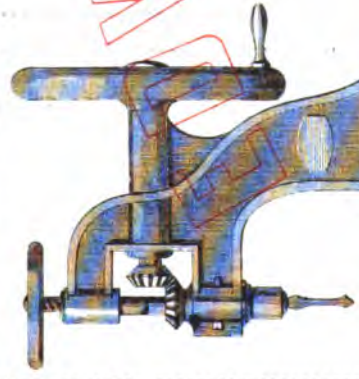
## SMALL BENCH DRILL, FOR HAND OR OTHER POWER.

Height .....	15	20	25	30	36	42	inches.
	50/0	75/0	110/0	150/0	240/0	350/0	each.

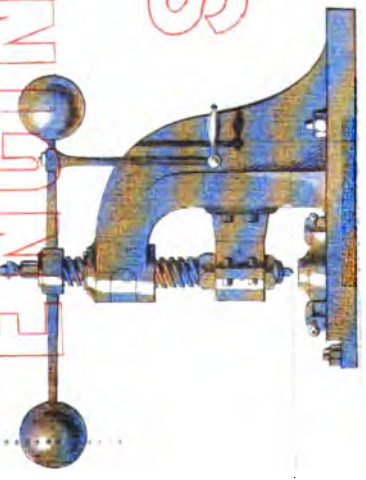




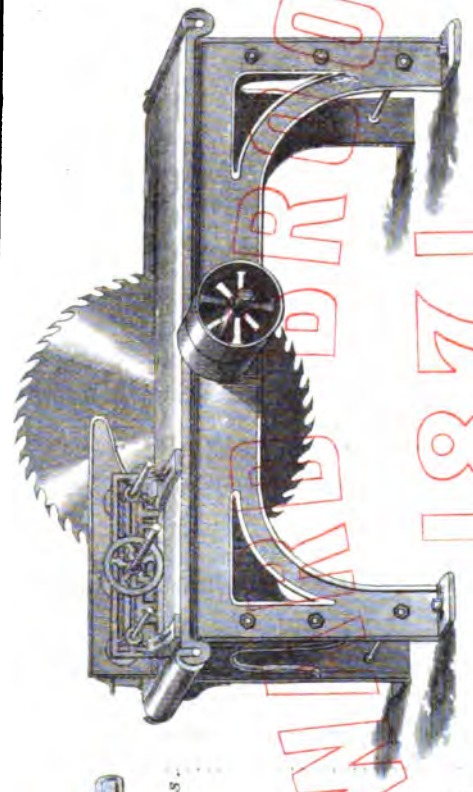
48 A. Stem Spindle Lathe, Pedestal's.



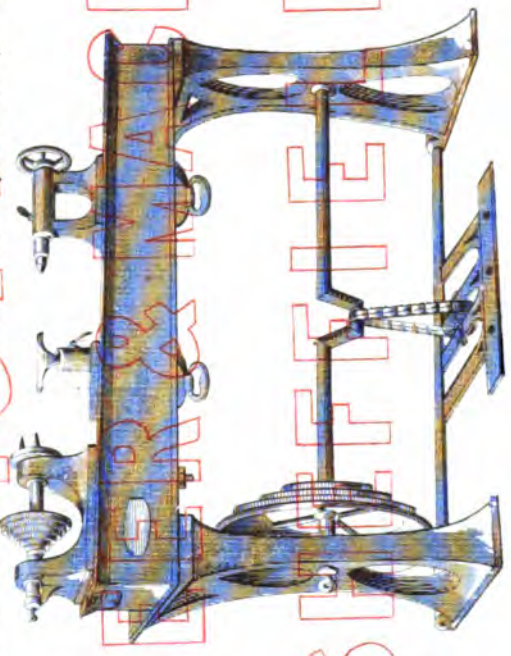
1007. Small Drill



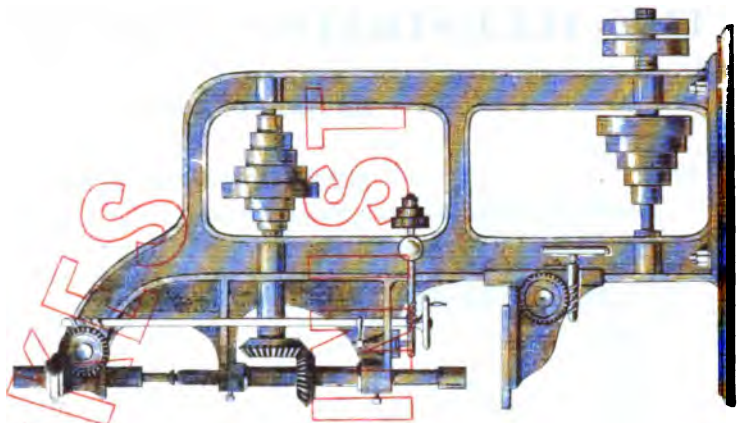
997. Fly Press



994 Circular Saw Table, Planed Metal Top, Rollers, Spindle &c



1002. Foot Lathe.



1005. Self Feeding Drilling Machine.



48 B. Saw Spindle & Frame.



## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

ENGINEERS' TOOLS.—Continued.

998

**SELF-ACTING SLIDE LATHES.**

Double-power Gear Headstocks, Two Face Plates, Change Speed Wheels, for Sliding and Reversing Motion, Self-Action for Transverse Surface Motion, for all above 9 inch centres; Adjustable Back Stay; Top Driving Apparatus and Screw Keys, with Supporting Stays and Tumbling Motion for long Beds; and all the most recent improvements:—

Height of Centres .....	6	7	8	9	10	12	14	15	16	18	20	22	24	inch.
Length of Bed .....	6	7	8	9	10	12	14	16	18	21	24	26	28	feet.
Length between the Centres .....	3½	4½	5	5½	6	8	10	11½	13	15	17½			"
Prices:—Complete for Sliding ....	£	45	50	65	85	90	100	125	140	185	225	260		each.
Leading Screw & Change Wheels } extra, when for Screw Cutting.. }	£	6	7	8	10	12	14	18	22	24	30	34		"
Longer or Shorter Bed, per foot ....		25	30	35	40	50	60	70	80	90	100	120		"

Any of the above Lathes made with fixed or sliding Brakes, or Gaps in the Bed to admit a larger diameter on the Face Plate.

**HAND LATHES,**

Consisting of Two Headstocks, Catch Plate, Face Plate, Rest Socket, and Top Cone Pulley:—

Height of Centres .....	6	7	8	9	10	12	14	15	16	18	20	in.		
999 Single Speed Headstocks ....	£	8	9	10	10	12	14	18	22	24	30	40	50	ea.
1000 Double-power Gear Headstocks	£	15	16	22	25	28	35	45	60	65	75	90	"	
Beds Planed to fit Headstocks, and fitted with Standards .. }		20	25	30	35	40	50	60	70	80	90	100	125	ft.
Top Driving Apparatus, two Hangers, Shaft, and Pulley }		50	60	70	80	90	110	130	140	150	160	180	ea.	
1001 Compound Slide Rests .....	£	6	7	8	9	10	12	14	16	18	21	25	"	

Cup Chucks or Ball Chucks ..... 8/0 per inch diameter.

Four Screw Chucks ..... 10/0 "

Three-jawed Universal Chucks ..... 14/0 "

1001A Amateur Lathe, with Planed Metal Beds, Standards, Crank, and Driving Wheel, Hand Rest, Face Plate, and Two Centres, £6 14s.

**RAILWAY WHEEL TURNING LATHES.**

No. 1.—With two Driving Headstocks, having external and internal Wheel on back of the Face Plate of fixed Headstock, and external Wheel on the back of Face Plate of movable Headstock; will turn two wheels at once on their axle, or separately on each Face Plate, up to 4 feet diameter; wrought iron Traversing Spindle inside of each Revolving Spindle; two compound Slide Rests, each upon a portable Saddle; the whole mounted upon a very strong planed cast iron Bed; Driving Apparatus and Screw Keys ..... £

No. 2.—For Turning 5 feet Wheels, fitted as No. 1 ..... £

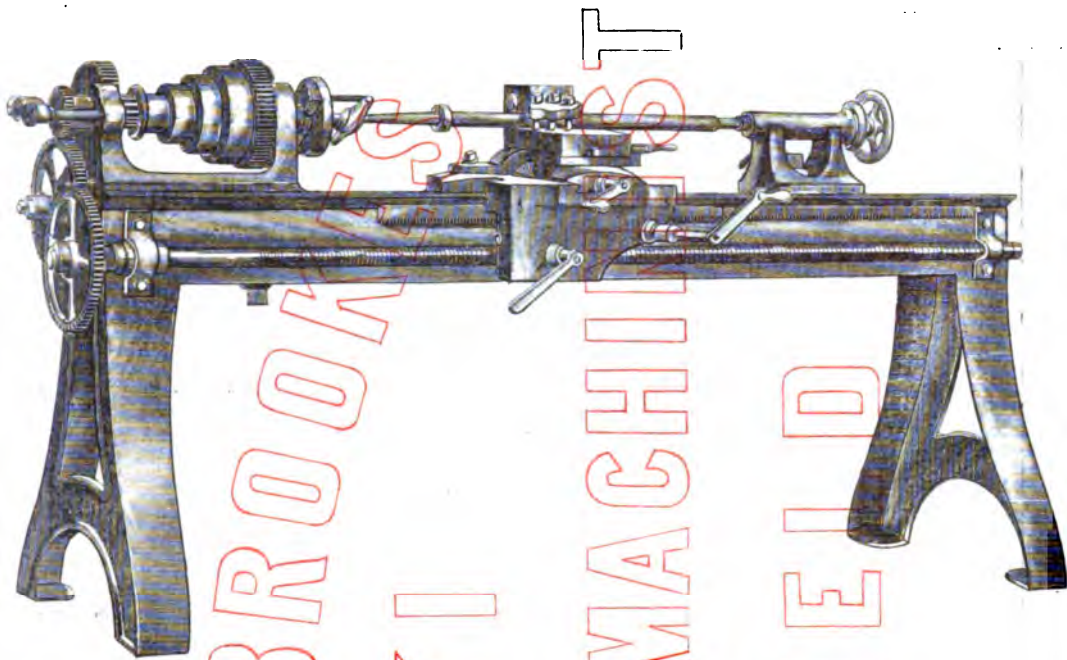
No. 3.—Ditto 6 feet do., do. .... £

No. 4.—Ditto 7 feet do., do. .... £

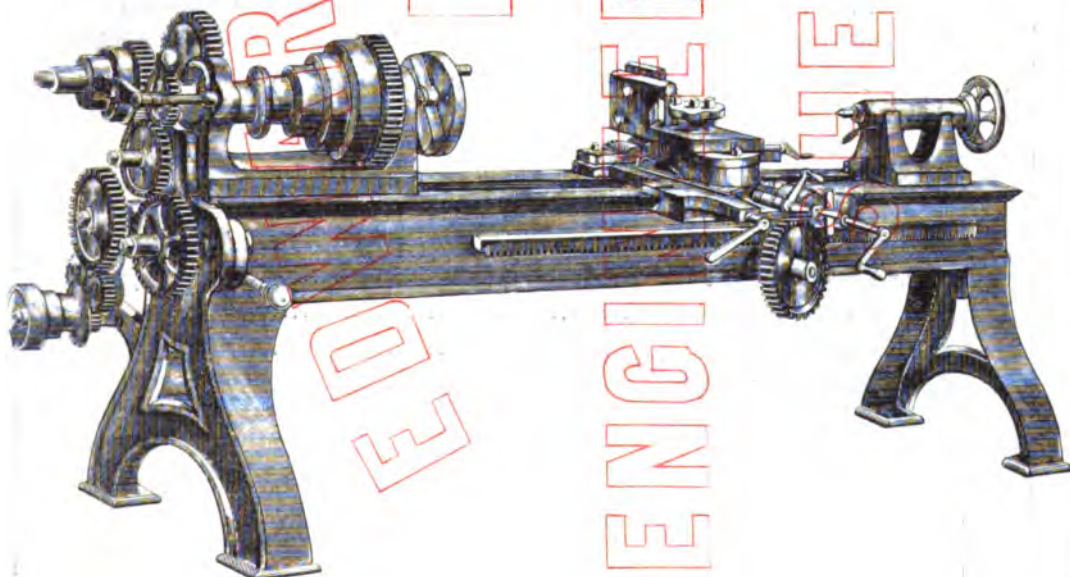
Strong Lathe for Sliding Carriage or Wagon Axles, Heads 10 inch Centres, upon 12 feet Bed, fitted with two Saddles and Rests, will Slide 8 feet long ..... £

**FACE LATHE.**

Very strong Self-acting Slide and Face Lathe, with Foundation Plate and Portable Bed 18 feet long, movable in and out of gap by a screw. Loose Headstock 24 inch centres, powerful fixed Headstock adjustable upon a Foundation Plate, fitted with triple gear, internal Wheel on back of Face Plate; strong portable Rest, with carriages and foundation Plates for ditto; Self-acting surfacing motion in Saddle; Top Driving Apparatus and Screw Keys. This Lathe may be used as a Horizontal Boring Mill for Steam Engine Cylinders, turning Railway Wheels either on or off their Axles up to 7 feet diameter, and will admit on the Face Plate gearing or other articles up to 10 feet .....



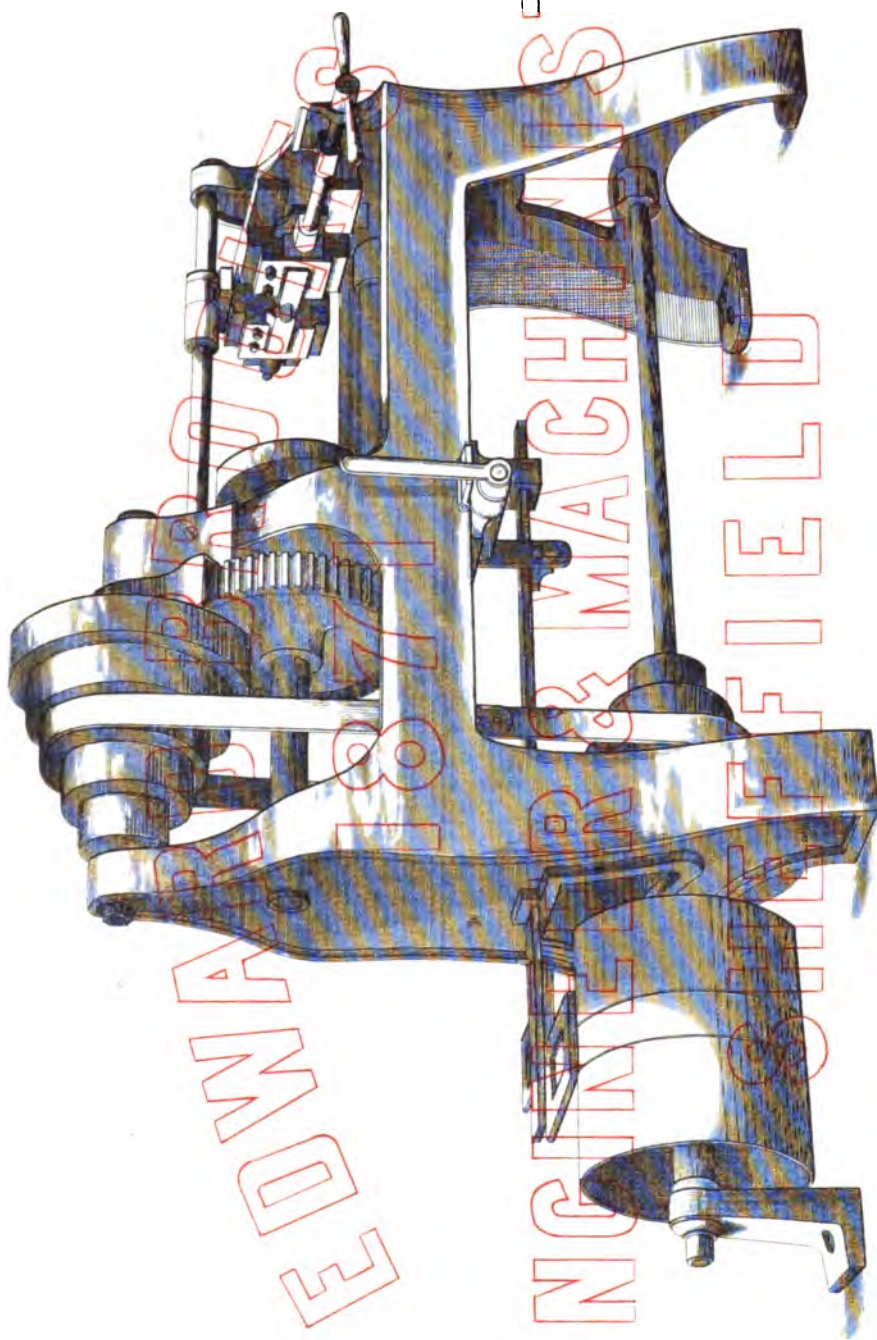
*998 Self-acting Slide Lathe, 6 In Centres &c*



*998 Self-acting Slide Lathe, 8 In Centres, Reverse Motion & Self-action For Transverse Surface Motion &c.*

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
		<b>BOLT SCREWING MACHINES.</b>
		Tons. Cwt. £ s. d.
1064		Machine to Screw from $\frac{1}{4}$ inch to $1\frac{1}{2}$ inch inclusive. Fitted as No. 1053
1065		Machine to Screw from $\frac{1}{4}$ inch to 2 inch inclusive. Fitted as No. 1053
1066		Boiler Plate Shears, from £ to £ each.
		<b>IMPROVED MACHINES FOR SHARPENING SAWS,</b>
		£ s. d.
		Fitted with Apparatus for Circular Saws to 6 feet diameter, and with moving Slide and Clams for long Saws to 4 feet at one setting; complete for work, with Four patent Emery Wheels, made expressly for Sharpening Saws .....
		Machine for Long or Frame Saws only .....
		Machine for Circular Saws only .....
		<b>EXTRA EMERY WHEELS AT PER LB.</b>
		N.B.—These Machines effect a great saving of time and labour in Sharpening all kinds of Saws; dispense with the necessity, so often arising with hand-sharpened Saws, for punching the teeth deeper, and the consequent hammering, and produce much more uniform and superior work.
		<b>SELF-ACTING CIRCULAR SAW GRINDING MACHINES.</b>
		No. 1.—For Saws 36 inches ..... £
		No. 2.—For Saws 42 inches ..... £
		No. 3.—For Saws 48 inches ..... £
		No. 4.—For Saws 60 inches ..... £
		No. 5.—For Saws 72 inches ..... £

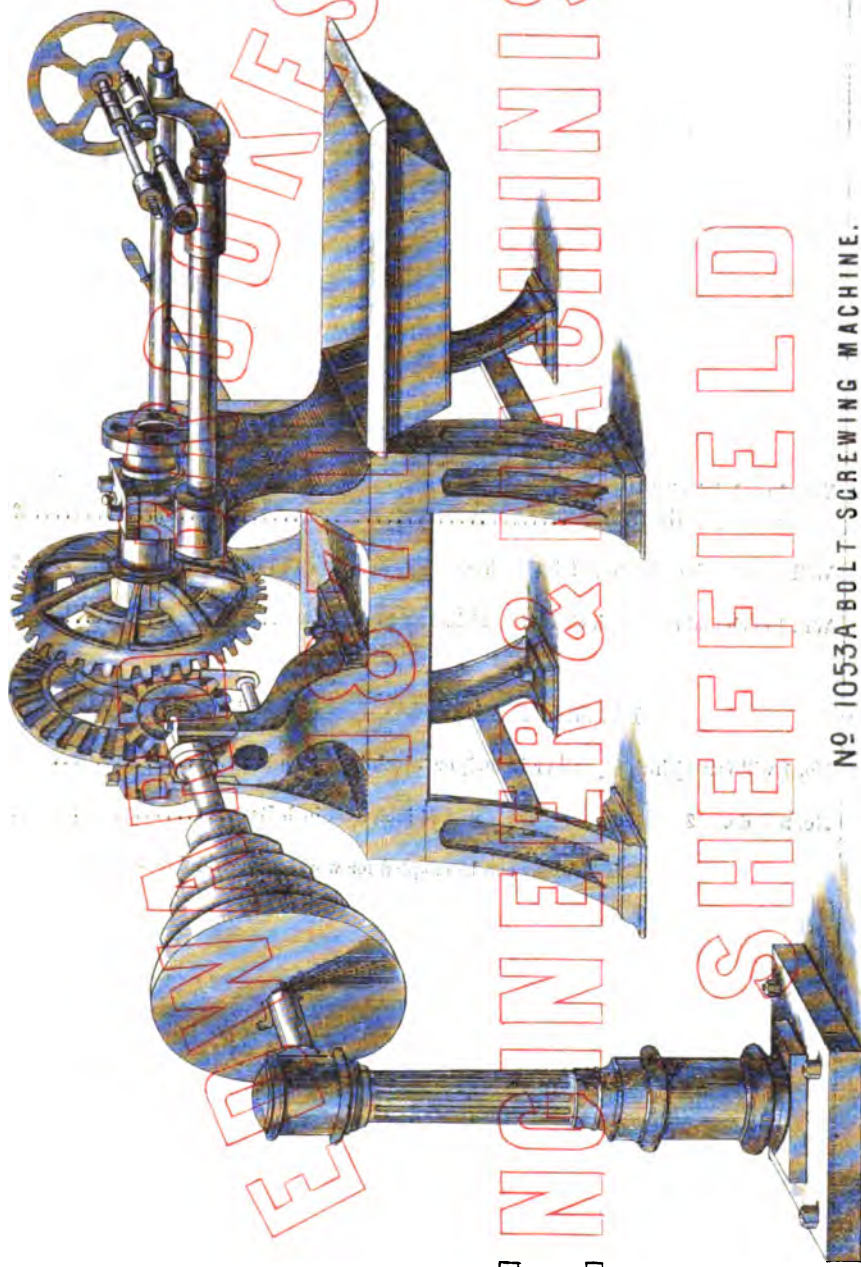


1053. BOLT SCREWING MACHINE.

To Screw from  $\frac{3}{4}$  to 1 inch; Geared, with Hollow Spindle, fitted with Die and Tap Holders, Six pair Dies, Reversing Motion, and Driving Apparatus. Weight, 15 Cwts.....£







NO. 1053A BOLT-SCREWING MACHINE.

*To Screw from  $\frac{3}{8}$  to 1 $\frac{1}{4}$  inch; Geared, with Hollow Spindle, fitted with Die and Tap Holders, Six pair Dies, Reversing Motion, and Driving Apparatus. Weight, Cwts.....£*

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count. & No.

## PUNCHING AND SHEARING MACHINES.

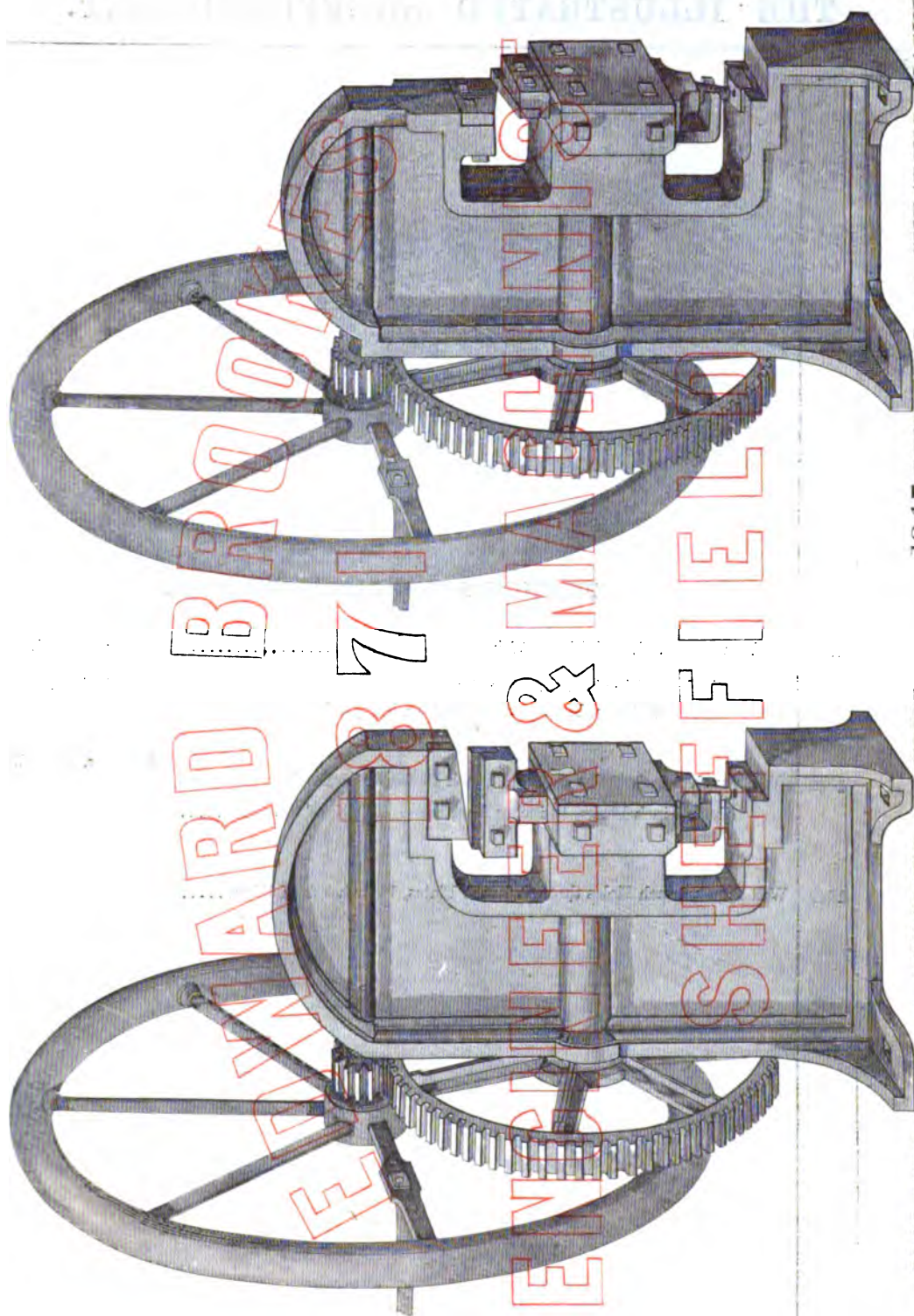
- 1044A Will Punch  $\frac{3}{4}$  inch Plates, 12 inches from Edge, and Shear long Bars; the Shears being fixed angularly ..... £
- 1045 Will Punch  $\frac{3}{4}$  inch Plates, 12 inches from Edge, and Shear 12 inches from Edge ..... £
- 1046 Will Punch and Shear  $\frac{3}{4}$  inch Plates, 12 inches from Edge..... £

1046A

## PATENT HYDRAULIC SHEARING MACHINE.

- No. 1 will Cut  $1\frac{1}{2}$  inch Square or Round, or 3 inch by  $\frac{1}{2}$  inch bar ..... £17 10 0
- No. 2 do. 2 do. do. 4 inch by 1 inch Bar ..... £33 10 0

This Machine can be adapted for working by Hand or Power.



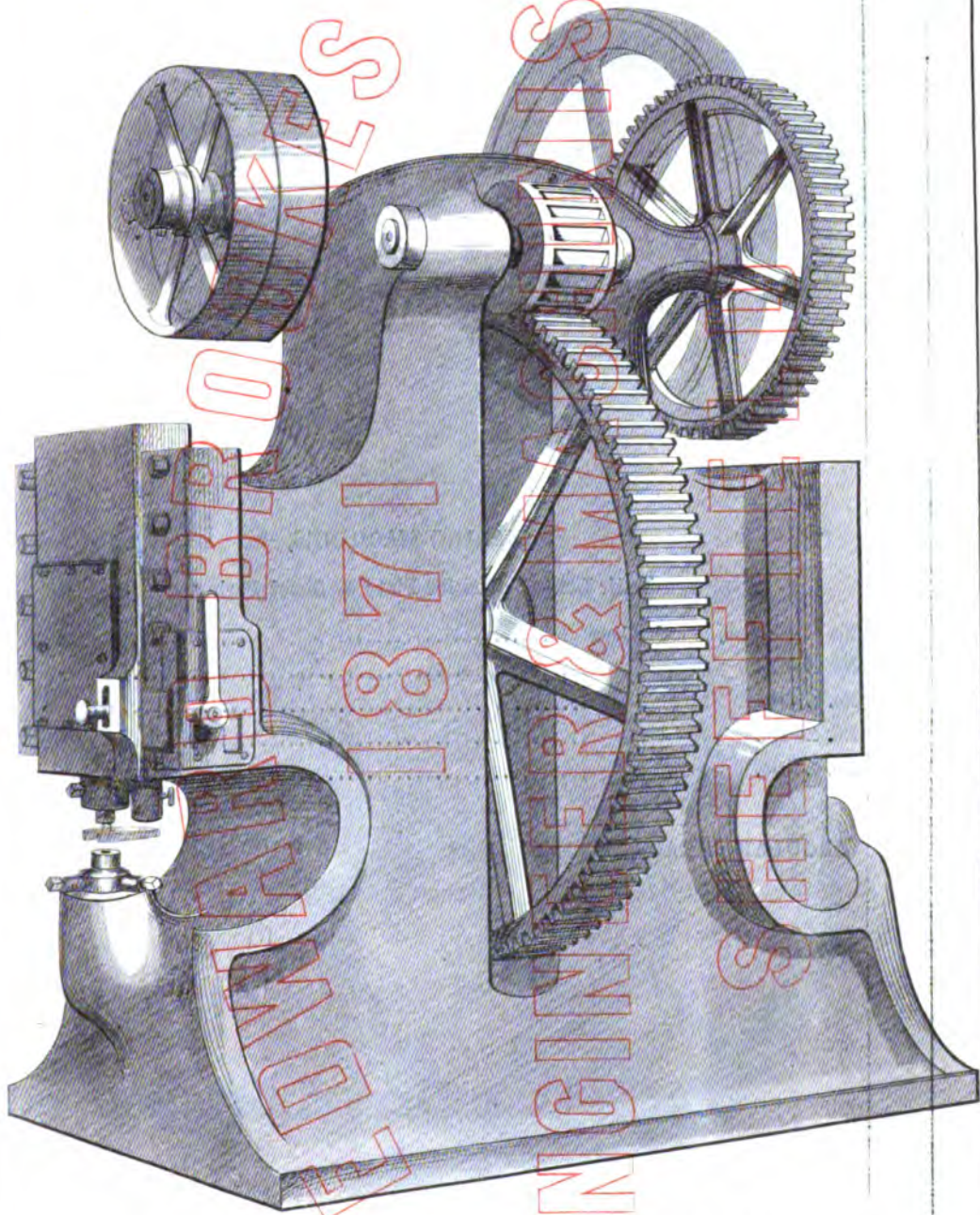
1046. PUNCHING and SHEARING MACHINE.

1045. PUNCHING and SHEARING MACHINE.



## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
<p style="text-align: center;"><b>PUNCHING AND SHEARING MACHINES.</b></p>		
1047	Will Punch and Shear $\frac{1}{4}$ Plates, 12 inches from Edge .....	s      a      d.
<p style="text-align: center;">This Machine is arranged to Punch at one End, and Shear at the other, and either Slide can be thrown out of Gear, independent of the other.</p>		
1048	Will Punch 1 inch Holes through 1 inch Plates, 24 inches from Edge, and Shear 1 inch Plates, 18 inches from Edge. Fitted as No. 1047.....	s      a      d.
1049	Will Punch 1 inch Holes through 1 inch Plates, 14 inches from Edge.....	



1048, PUNCHING and SHEARING MACHINE.

THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

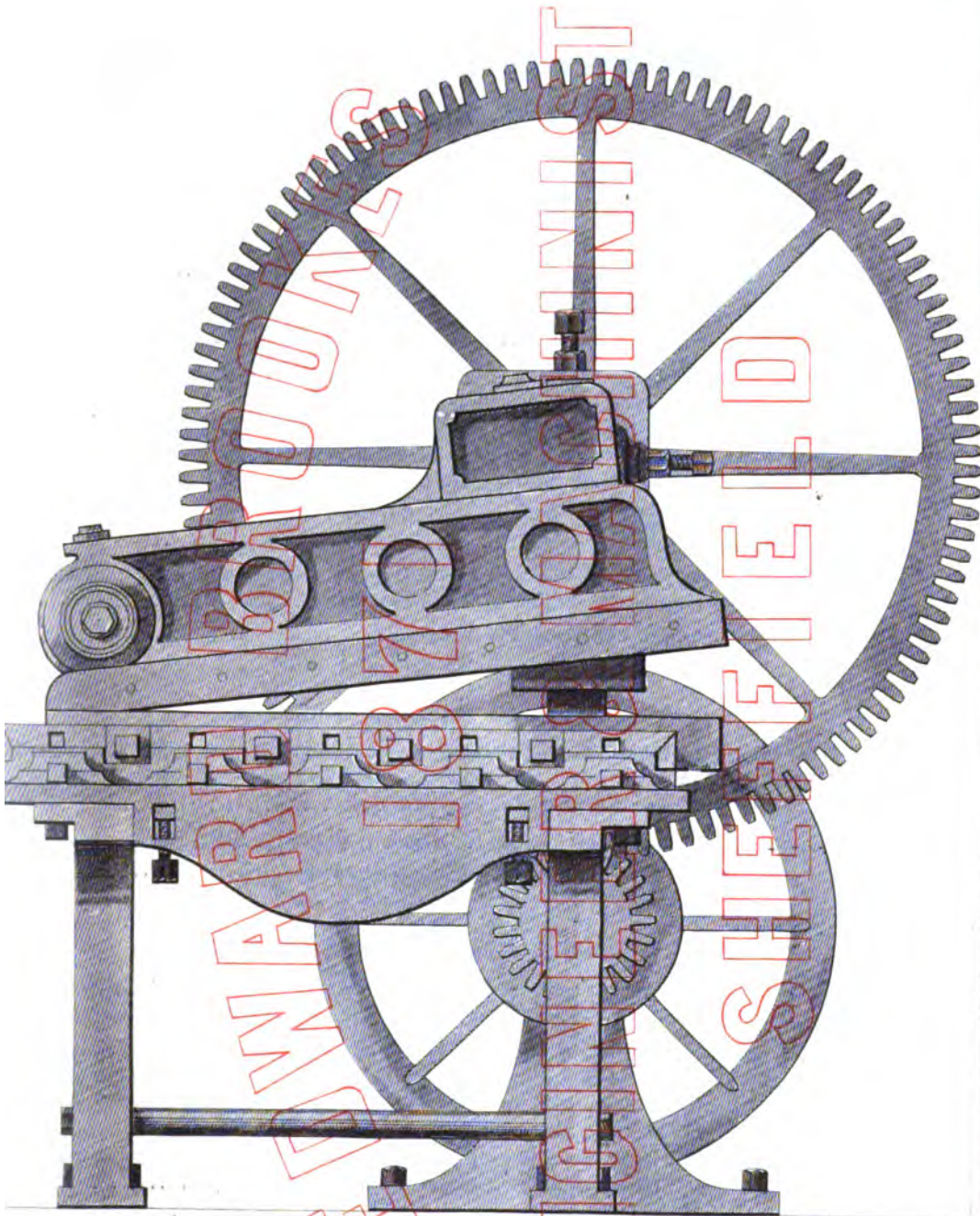
SHEARING MACHINES,

With Long Blades for Plate or Sheet Paring.

No. 1.—Cutters, 24 inches long.....			£
No. 2.—Do.	30	”	£
No. 3.—Do.	36	”	£
No. 4.—Do.	42	”	£
No. 5.—Do.	48	”	£

CIRCULAR SHEARS, to Order.



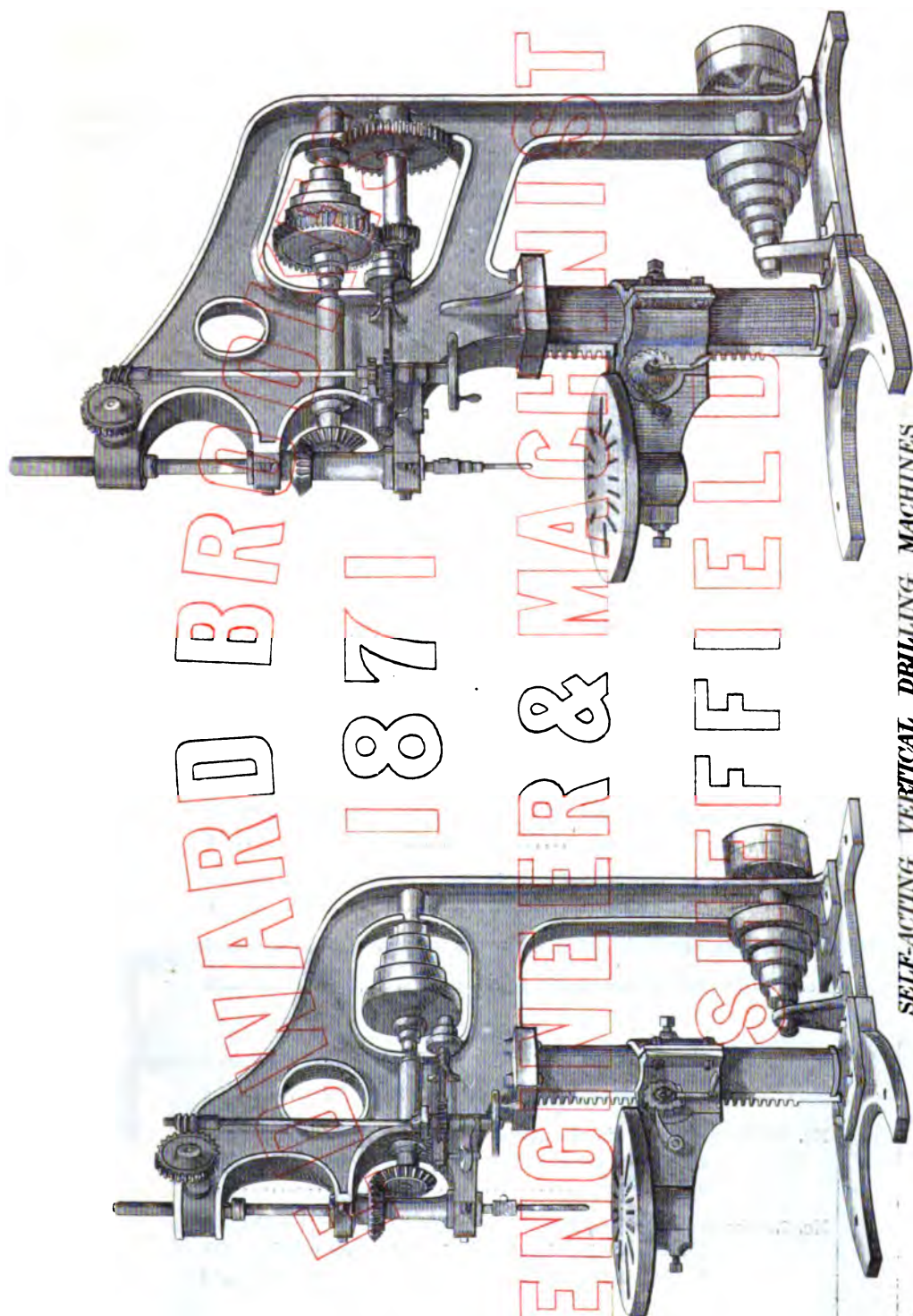


1056, BOILER PLATE SHEARS.

..... Boiler Plate Shears, from £ to £ each.

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
<b>DRILLING MACHINES.</b>		
<b>VERTICAL DRILLING MACHINES.</b>		
1005A		Drilling Machine, including Cast Iron Base Plate, Circular Column, with Revolving Table, having a Vertical Slide by Rack and Pinion, to admit an article 2 feet 3 inches diameter, to drill up to 1½ inch diameter; Driving Apparatus being self-contained..... £
1005B		Drilling Machine, to admit an article 2 feet 8 inches diameter to drill up to 1½ inch; fitted as No. 1005A ..... £
1006		Drilling Machine, Double Geared, to admit an article 2 feet 6 inches diameter, to drill up to 4 inches diameter; fitted as No. 1005A ..... £
<b>WALL DRILLING MACHINES.</b>		
1006A		To fix against a wall, a self-acting Machine, with Cone Speed Motion, the centre of Spindle to project 2 feet from the wall, will drill holes up to 2 inches diameter and 10 inches deep; Driving Apparatus, Drill and Screw Key ..... £
1006B		The same size Machine, with Double Power Gear..... £
1006C		Strong Self-acting Machine, the centre of Spindle to project 3 feet from wall, will bore 12 inches deep; very suitable for cutting out holes in Tube Plates, &c..... £
1006D		The same size Machine, with Double Power Gear..... £
<b>RADIAL DRILLING MACHINE.</b>		
1006E		Self-acting Radial Drilling Machine, Double Power Gear, 18 inch traverse, Radial Arm, 6 feet long, will swing round the pillar a complete circle; self-acting motion for raising or lowering the Radial Arm, complete with Top Driving Apparatus ..... £
1006F		The same Machine with Radial Arm and Drill Spindle made to swivel at different Angles, to drill holes Vertically or at any Angle; self-acting in all positions ..... £
<b>HORIZONTAL BORING MACHINES.</b>		
No. 1.—Strong Machine, to admit 18 inches diameter, fitted upon 12 feet Bed, self-acting feed motion, One Boring Bar, Two Adjustable Stays, Top Driving Apparatus, and Screw Keys... £		
No. 2.—Self-acting, will bore through a range of 2 feet 6 inches long, and up to 8 inches diameter, will admit Articles on the Table up to 16 inch Centre. The Table being arranged with longitudinal, transverse, and vertical motion, greatly facilitates the fixing and adjustment of any object required to be operated upon. The Machine is fitted with One Boring Spindle and Stay, Top Driving Apparatus and Screw Keys; it is well adapted for boring Plummer Blocks, Railway Axle Boxes, Hangers, small Steam Cylinders, cutting Key-ways in Shafts, &c. .... £		
No. 2.—Fitted with Face Plate and Slide Rest, to work as a Face Lathe, extra ..... £		
No. 3.—Strong Machine, self-acting through a range of 3 feet 3 inches, will admit an article 3 feet diameter upon Foundation Plate, 12 feet long by 2 feet 6 inches wide; Fittings complete as No. 1 ..... £		
Heavy Horizontal or Vertical Boring Mills, for Cylinders of large diameter ..... £		



1005A Single Geared.

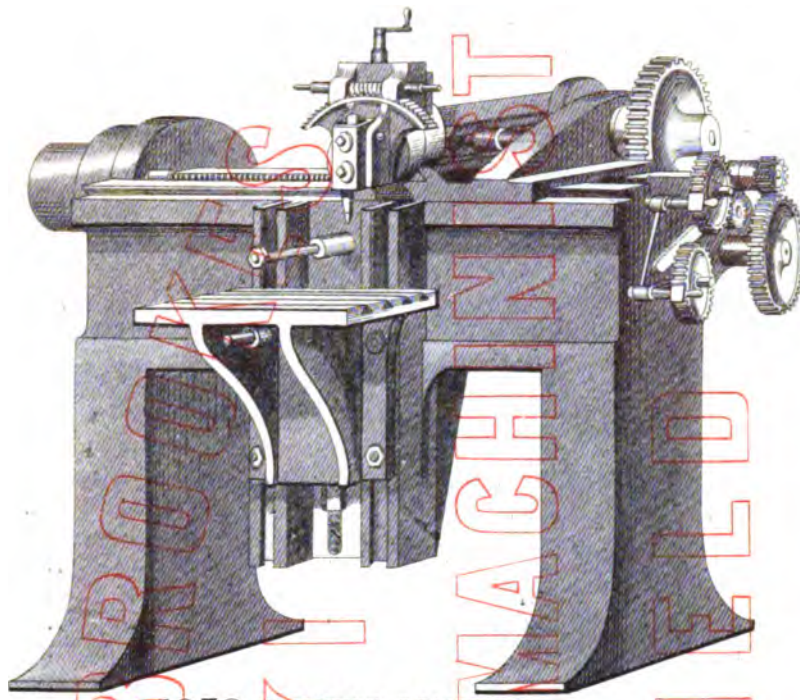
SELF-ACTING VERTICAL DRILLING MACHINES

1006 Double Geared.

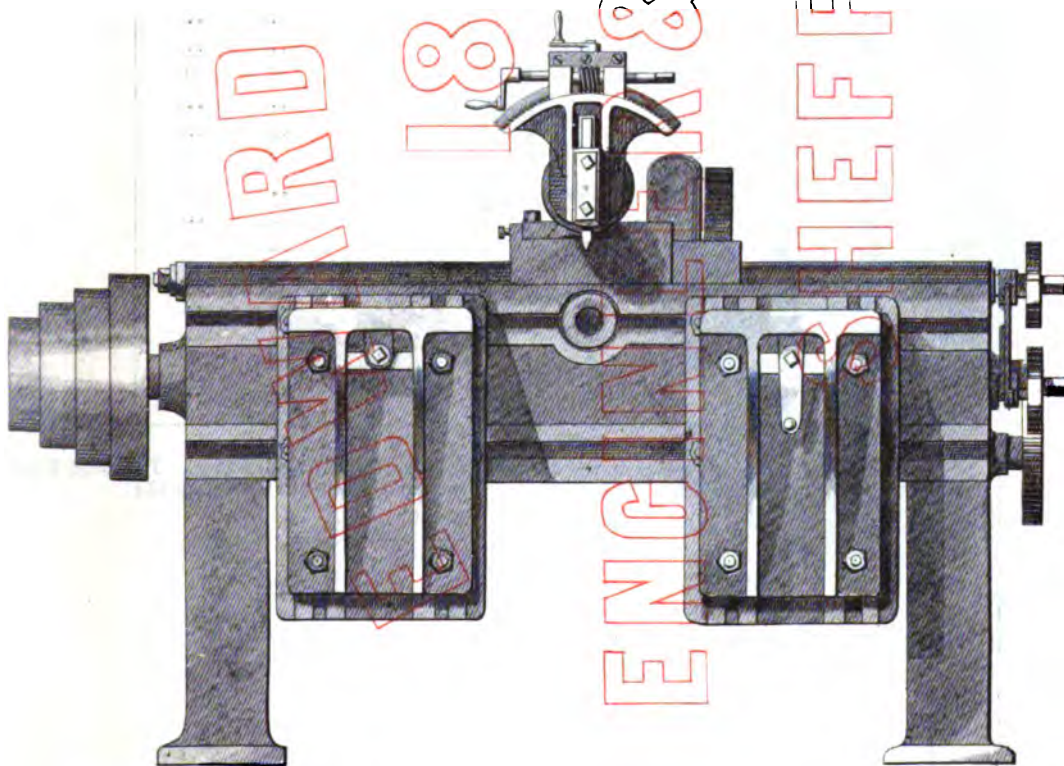
## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	ENGINEERS' TOOLS.—Continued.					
		<b>SELF-ACTING SHAPING MACHINES.</b>					
		These Machines have a Planing Tool with Variable Stroke for Plain, Curved, and Angular Surfaces. All Machines with a Stroke exceeding 6 inches, have a quick Return Motion for the Tool The Prices include Driving Apparatus.					
		DESCRIPTION.	Maximum Stroke.. Inches.	Length of Bed. Ft. In.	Length Planed. Ft. In.	Diameter of Circular Work Planed. Inches.	Price. £ s. d.
1057		For Plain and Circular Work .....	6	2 6	1 4	9	
1058		Ditto ditto ditto .....	6	3 9	2 4	6	
1059		With three Headstocks and three Tables .....	6	12 0	{ 1 8 2 3 }	7	
1060		For Plain and Circular Work, with one Table .....	13	3 9	2 4	18	
1061		Ditto ditto ditto .....	9½	3 9	2 5	12	
1062		Ditto ditto, with 2 Tables .....	9½	4 9	3 5	12	
1063		Ditto ditto, with 2 Tables .....	9½	5 9	4 5	12	
1064		Ditto ditto, with 2 Tables and 2 Headstocks .....	9½	12 0	By Each. 4 4	12	
1065		Ditto with 1 Table .....	12	3 9	2 4	18	
1066		Ditto with 2 Tables .....	13	4 9	3 4	18	
1067		Ditto with 2 Tables .....	13	5 9	4 4	18	
1068		Ditto with 2 Tables .....	20	6 0			
1069		Ditto with 2 Tables .....	20	9 0			
1070		Ditto with 2 Tables .....	20	12 0			
1071		Vice Chucks, for fixing objects to be shaped.					
1072		Dividing Chuck, for Planing Connecting Rod, and other Brasses, on the above Machines.					
		<b>FLUTING MACHINES,</b>					
		Fitted with the required No. of Indices, Self-acting Levers, &c.					
		No. 1.—Fluting Machine and Wood Turning Lathe combined, for Wood Pressure Axles .....					£
		No. 2.—Ditto, for 2 Rollers at once, in Wood or Metal, 6 in. diameter by 18 in. long .....					£
		No. 3.—Ditto, for 2 Rollers at once, 5 ft. 6 in. long .....					£
		No. 4.—Ditto, for 2 Rollers at once, 10 ft. long .....					£
		<b>GROOVING MACHINES.</b>					
		With Self-acting Feed Motions, and worked by Circular Cutters.					
		No. 1.—To cut Keyways in Railway Carriage and Truck Axles .....					£
		No. 2.—To cut Keyways in ditto, fitted with two strong Travelling Head- stocks, each carrying 3 Cutters to operate upon both ends of 3 Axles at once .....					£
		No. 3.—For Grooving Taps, Dies, Rimers, Wheel Cutting, Nut Shaping, &c., will admit 14 in. diameter by 25 in. long, complete with Top Driving Apparatus, Change Wheels, Screw Keys, &c., £					£
		<b>NUT SHAPING MACHINES.</b>					
		Strong Machine for Shaping 4 or 6-Sided Nuts, one or two sides at the same time; fitted with Top Driving Apparatus, and one pair of Cutters .....					£





1058, SHAPING MACHINE.



1062, SHAPING MACHINE with TWO TABLES.

## THE ILLUSTRATED SHEFFIELD LIST.

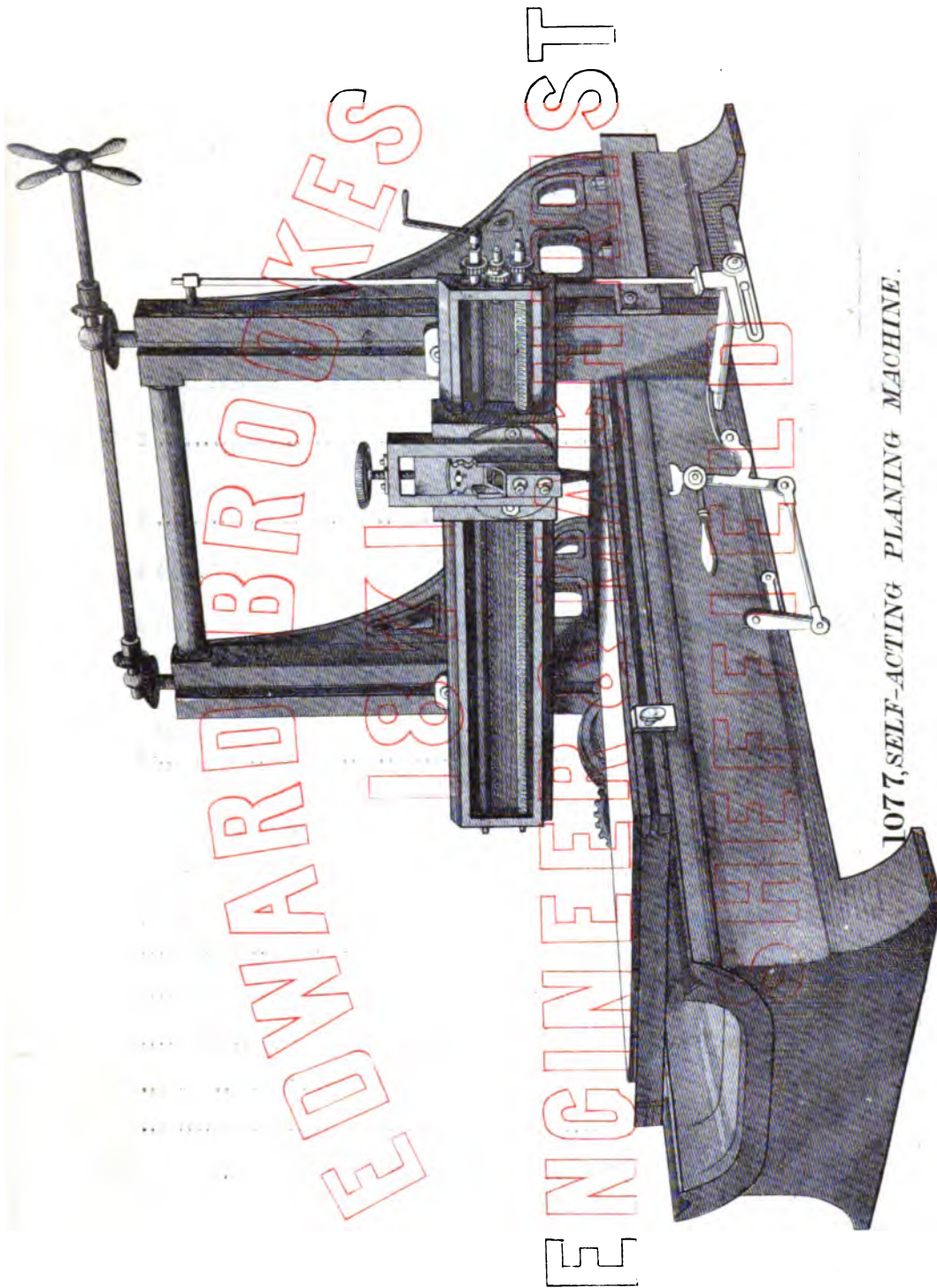
Dis-  
count.

No.

## PLANING MACHINES.

	Will Plane in Length		Will Plane in Width		Will admit in Depth		Weight		Price		
	Feet.	Inch.	Feet.	Inch.	Feet.	Inch.	Tons.	Cwt.	£	s.	d.
1073	3	0	1	6	1	6	..	..			
1074	4	0	1	9	1	9	1	10			
1075	5	0	2	0	2	0	..	..			
1076	10	0	2	0	2	0	..	..			
1077	6	0	2	6	2	0	2	15			
1078	10	0	2	6	2	0	..	..			
1079	15	0	2	6	2	6	..	..			
1080	8	0	3	0	2	6	3	10			
1081	12	0		0	3	0	..	..			
1082	20	0	3	0	3	0	..	..			
1083	10	0	3	6	3	0	4	10			
1084	20	0	3	6	3	0	..	..			
1085	8	0	4	0	4	0	..	..			
1086	12	0	4	0	4	0	6	0			
1087	20	0	4	0	4	0	..	..			
1088	10	0	4	6	4	0	..	..			
1089	15	0	4	6	4	0	11	0			
1090	20	0	4	6	4	6	14	14			
1091	25	0	4	6	4	6	..	..			
1092	15	0	5	0	5	0	..	..			
1093	20	0	6	0	6	0	26	9			
1094	30	0	6	0	6	0	..	..			

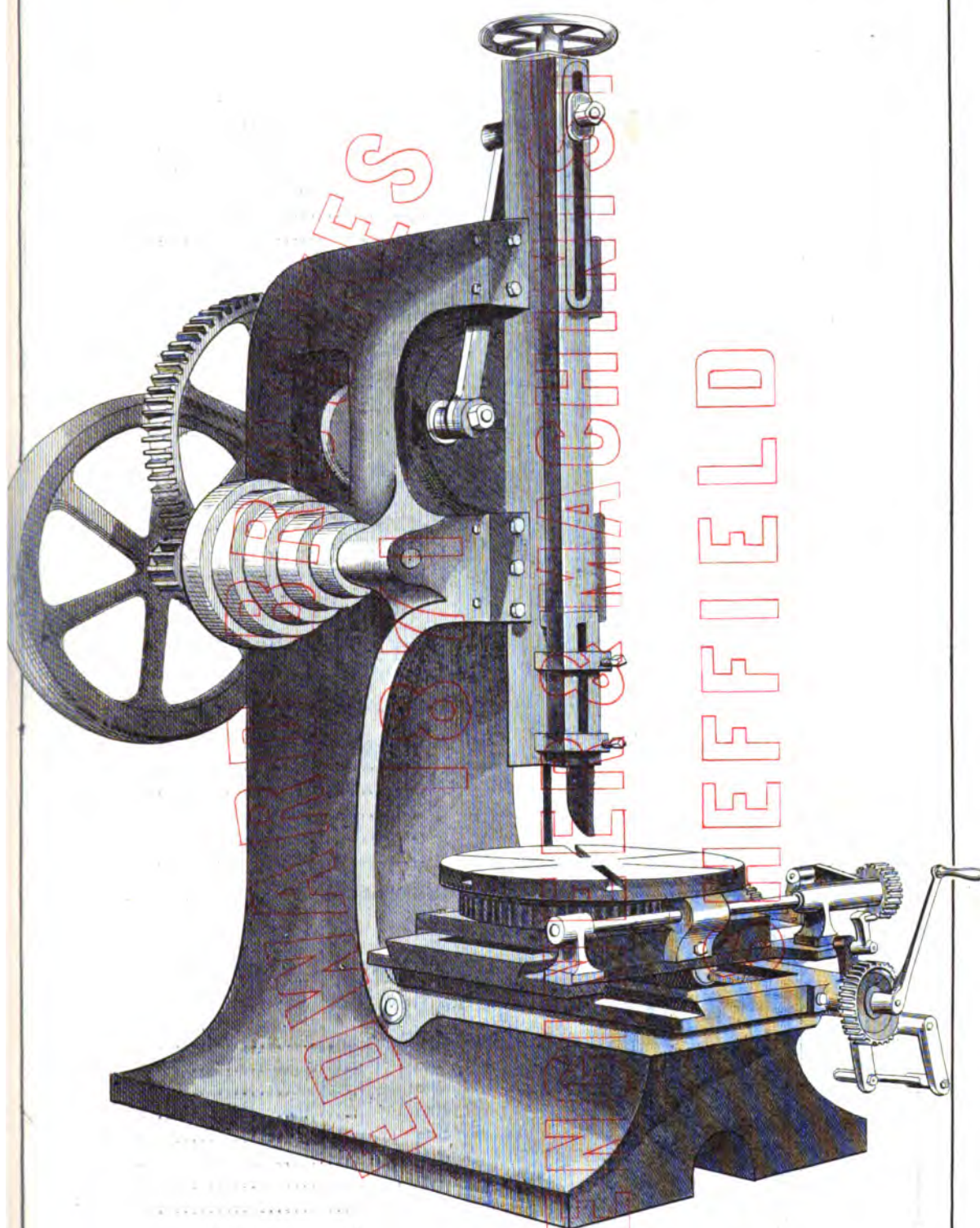
These Machines are self-acting on the Horizontal, Vertical, and Angular Cuts. Improved Parallel Vices for the above, with or without Swivel Bottoms. (See page 12.)



## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	ENGINEERS' TOOLS, &c.—Continued.
<p style="text-align: center;"><b>SELF-ACTING SLOTTING MACHINES.</b></p> <p>1095 To admit an article two feet six inches diameter, with eight inches stroke, Self-acting in Transverse Slides, and Rotary Motion, adapted for Shaping a great variety of work ..... £</p> <p>1096 To admit an article two feet ten inches diameter, with nine inches stroke, Self-acting as above ..... £</p> <p>1097 To admit an article three feet diameter, with twelve inches stroke; fitted as No. 1095 £</p> <p>1098 To admit an article four feet diameter, with thirteen inches stroke; fitted as No. 1095 £</p> <p>1099 To admit an article six feet diameter, with fifteen inches stroke, fitted as No. 1095.... £</p> <p>1100 To admit an article eight feet diameter, with eighteen inches stroke, very strong; fitted as No. 1095..... £</p> <p style="text-align: center;"><b>WHEEL CUTTING AND DIVIDING ENGINES.</b></p> <p>No. 1.—Will cut Bevil Spur or Worm Wheels up to 18 inches diameter and 3 inches on face, in Wood or Iron, fitted with Mandrill, one Spindle and Cutter for Metal, and one Spindle and Cutter for Wood; Set of Change Wheels, turned and teeth cut; Index, Top Driving Apparatus and Screw Keys ..... £</p> <p>No. 2.—To cut 4 feet diameter and 6 inches on face; fitted as No. 1.....</p> <p>No. 3.—To cut 6 feet diameter and 12 inches on face; fitted as No. 1 .....</p> <p>No. 4.—To cut 12 feet diameter and 16 inches on face; fitted as No. 1.....</p> <p>Machine for making Cutters .....</p> <p style="text-align: center;">Any kind of Cutters for Wood or Iron made to order.</p>		

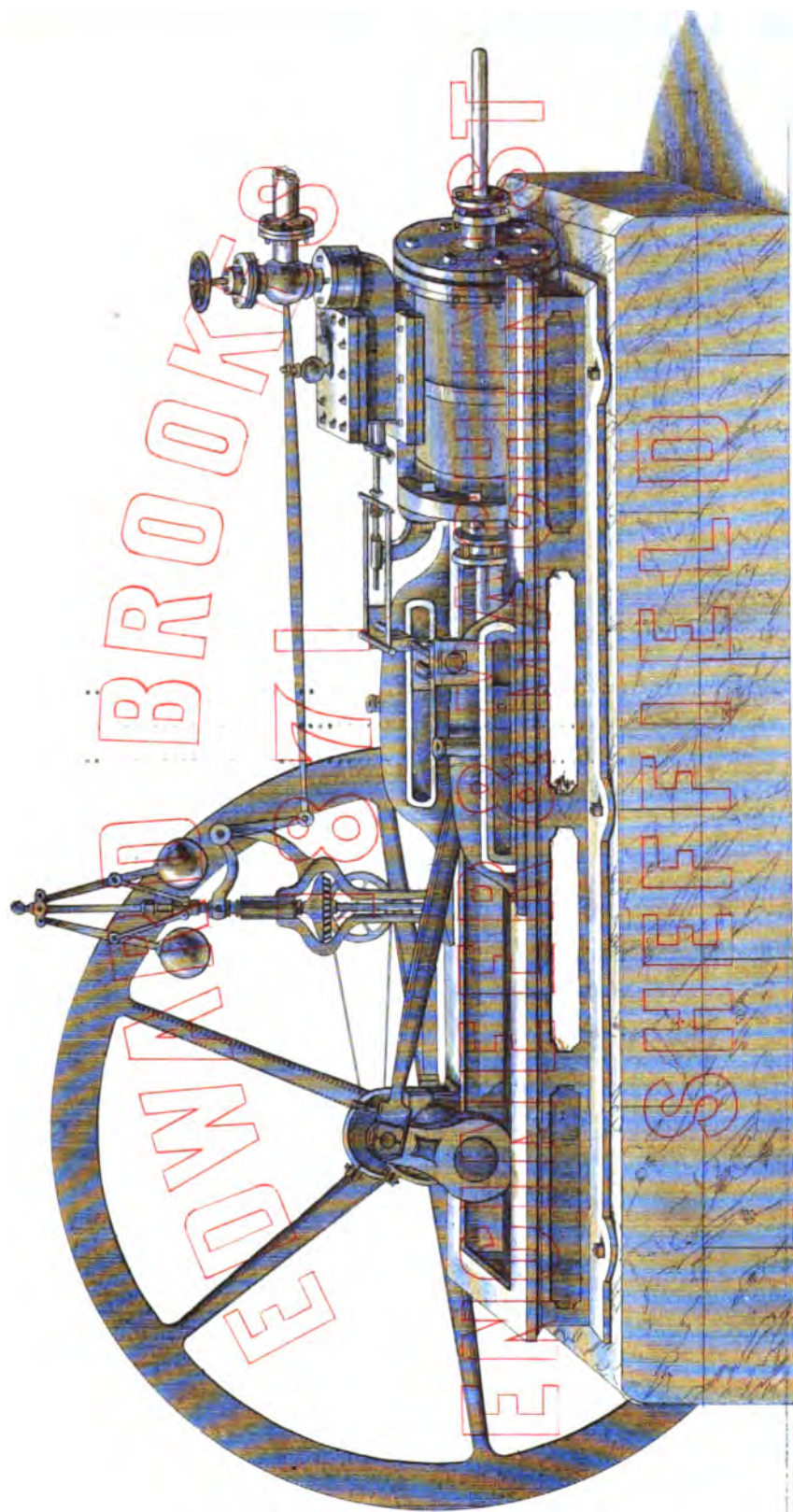




1095. SELF-ACTING SLOTTING MACHINE.

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
		<b>PUMPING ENGINES.</b>
	1109	4 inch Cylinder, $4\frac{1}{2}$ inch Stroke, $2\frac{1}{2}$ inch Pump ..... £
	1110	5 ditto, 6 ditto, 3 ditto ..... £
	1111	6 ditto, 8 ditto, 4 ditto ..... £
	1112	7 ditto, 10 ditto, 5 ditto ..... £
	1113	8 ditto, 12 ditto, 6 ditto ..... £
	1114	10 ditto, 18 ditto, 6 ditto ..... £
	1114A	<b>IMPROVED HORIZONTAL HIGH-PRESSURE STEAM ENGINE,</b> With Boiler of the Best Staffordshire and Low Moor Plates, and necessary fittings. 4 Horse Power, $6\frac{1}{2}$ inches Diameter of Cylinder ..... £
		6 ditto, $8\frac{1}{2}$ ditto ditto ..... £
		8 ditto, $9\frac{1}{2}$ ditto ditto ..... £
		10 ditto, $10\frac{1}{2}$ ditto ditto ..... £
		12 ditto, $11\frac{1}{2}$ ditto ditto ..... £
		14 ditto, 13 ditto ditto ..... £
		20 ditto, 15 ditto ditto ..... £
		25 ditto, 17 ditto ditto ..... £
		30 ditto, 18 ditto ditto ..... £
		<b>IMPROVED PORTABLE STEAM ENGINES,</b> With Single Cylinder. Complete with Wood or Iron Wheels, at the option of the purchaser. 4 Horse Power, $6\frac{1}{2}$ inches Diameter of Cylinder ..... £
		5 ditto, $7\frac{1}{2}$ ditto ditto ..... £
		6 ditto, $8\frac{1}{2}$ ditto ditto ..... £
		7 ditto, $8\frac{1}{2}$ ditto ditto ..... £
		8 ditto, $9\frac{1}{2}$ ditto ditto ..... £
		10 ditto, $10\frac{1}{2}$ ditto ditto ..... £
		Link Motion, for Reversing, may be attached to any Engine at an extra cost.
		<b>IMPROVED PORTABLE STEAM ENGINES,</b> <b>WITH TWO CYLINDERS.</b> 8 Horse Power, with two Cylinders $6\frac{1}{2}$ inches Diameter ..... £
		10 ditto, ditto $7\frac{1}{2}$ ditto ..... £
		12 ditto, ditto $8\frac{1}{2}$ ditto ..... £
		14 ditto, ditto $8\frac{1}{2}$ ditto ..... £
		16 ditto, ditto $9\frac{1}{2}$ ditto ..... £
		18 ditto, ditto $10\frac{1}{2}$ ditto ..... £
		20 ditto, ditto $10\frac{1}{2}$ ditto ..... £
		25 ditto, ditto 12 ditto ..... £
		30 ditto, ditto 13 ditto ..... £
		Higher Powers tendered for. Link Motion, for Reversing, may be attached at an extra cost.



NO 1114A, IMPROVED HORIZONTAL HIGH PRESSURE STEAM ENGINE.

THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

1114B

IMPROVED VERTICAL HIGH-PRESSURE STEAM ENGINE,

With Boiler of the Best Staffordshire and Low Moor Plates, and necessary Fittings.

- Four Horse Power ..... £
- Six Horse Power ..... £
- Eight Horse Power ..... £

IMPROVED MORTAR MILL,

With Driving Gear under the Revolving Pan.

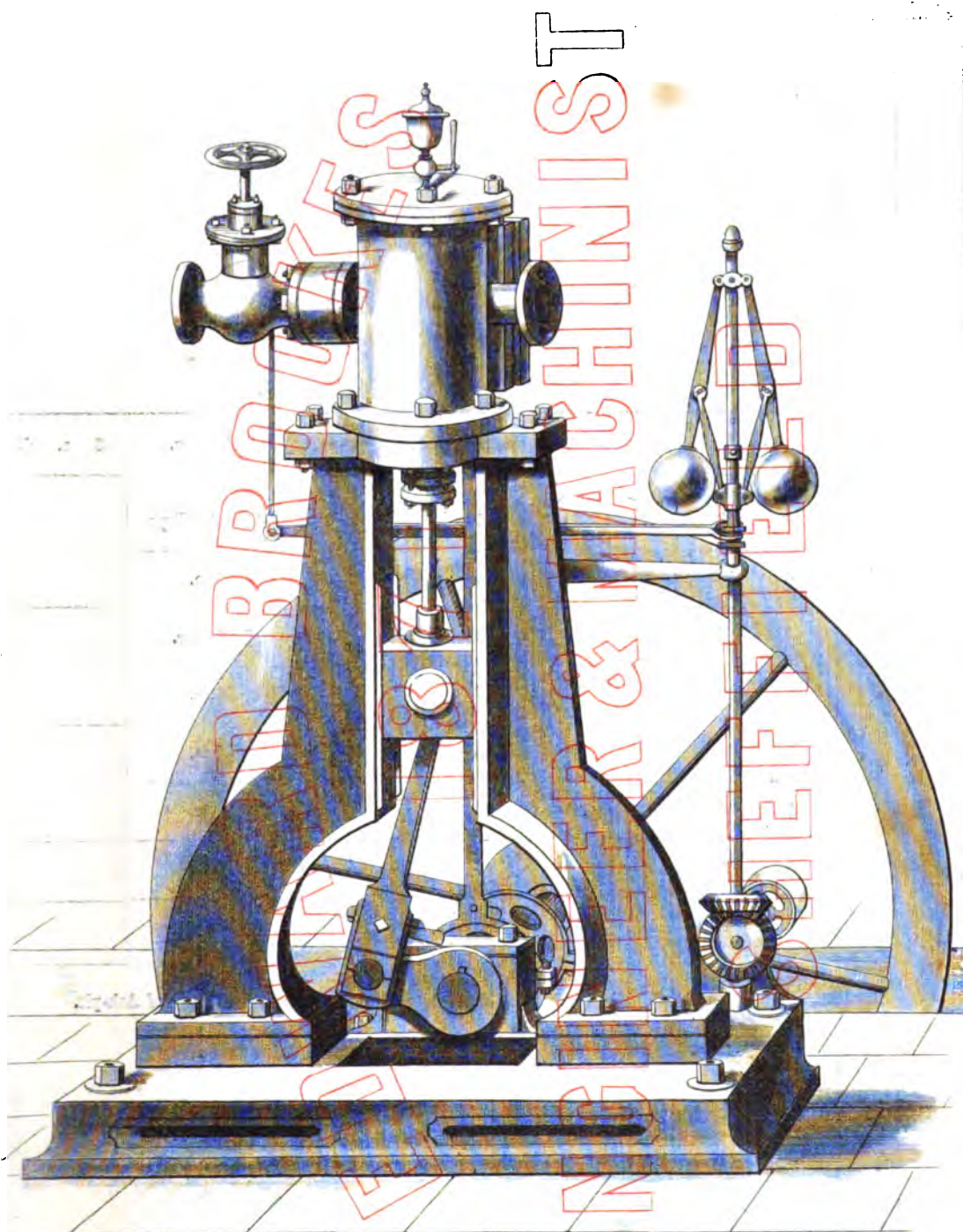
In various sizes, Five to Nine Feet. (Prices on Application.)

BLACK OR BRIGHT MILL SHAFTING, COUPLINGS, CLUTCHES,  
STRAP AND DRIVING PULLEYS, PLUMMER BLOCKS, &c.

(Prices on Application.)



THE C. & S. CO. OF NEW YORK



NO. 1114 B, IMPROVED VERTICAL HIGH PRESSURE STEAM ENGINE.

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

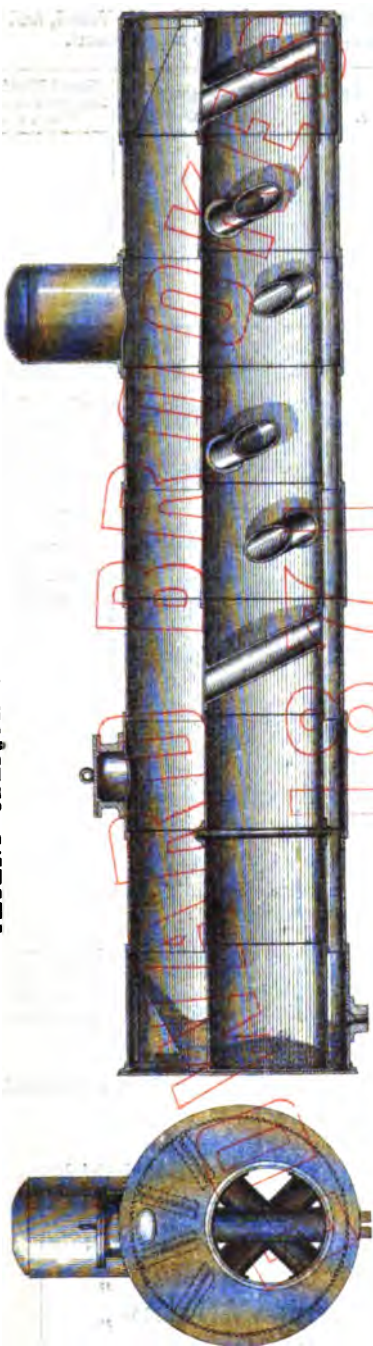
No.

## VERTICAL STEAM BOILERS.

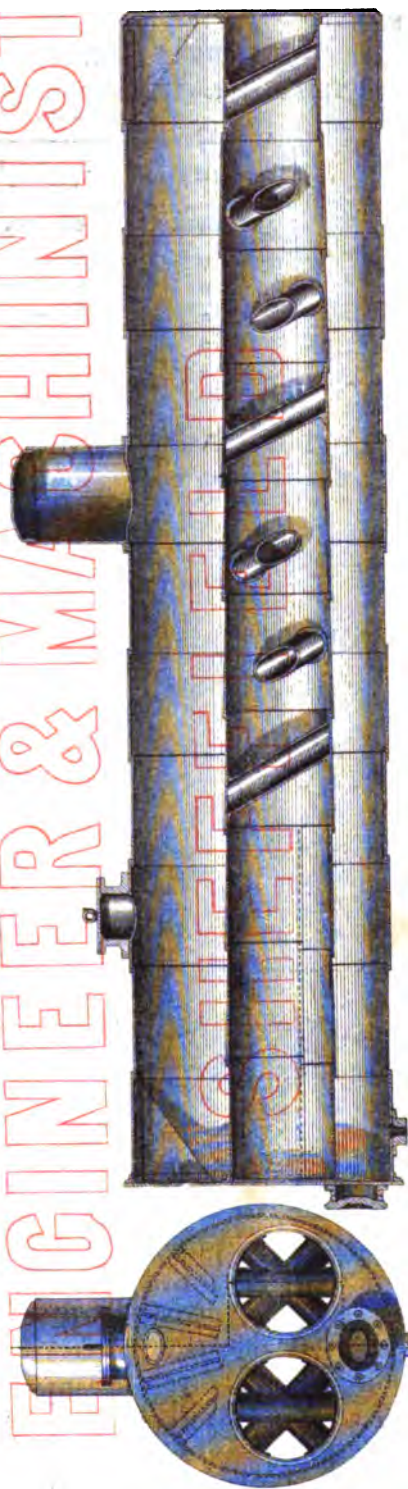
Length.		Diameter.		No. of Tubes.	Horse Power.	Thickness.	f a d
Feet.	Inches.	Feet.	Inches.				
4	2	2	4	1	2	5-16 and $\frac{3}{8}$ Top.	
4	10	2	6	2	3	Ditto.	
5	6	3	0	2	4	$\frac{3}{8}$ all over.	
6	0	3	3	2	4 $\frac{1}{2}$	Ditto.	
6	6		6	2	5 $\frac{1}{2}$	Ditto.	
7	0	3	8	3	6 $\frac{1}{2}$	Ditto.	
8	0	4	0	3	7 $\frac{1}{2}$	Ditto.	
8	6	4	3		8	Ditto.	

The length of Boiler is calculated from the Fire Bars, not from the bottom of Ash-pit.

**PATENT OBLIQUE TRANSVERSE TUBES.**



**ONE AND TWO FLUE CORNISH STEAM BOILERS,  
SHOWING THE "PATENT OBLIQUE TRANSVERSE TUBES."**



## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## DOUBLE AND SINGLE-ACTING VERTICAL STEAM PUMPS.

The Column to which the Steam Cylinder and Pump are attached is the Air Vessel, and the Base of the Column the Clack Box, making a very compact arrangement.

Diameter of Pump.	Diameter of Cylinder.	Single-Acting. \$ s. d.	Double-Acting. \$ s. d.	Barrel Lined, and Plunger Coated with Brass, extra.
2 inches.	4 inches.			
2½ "	4 "			
3 "	6 "			
4 "	6 "			
5 "	8 "			
6 "	9 "			

## DOUBLE-ACTING HORIZONTAL HIGH-PRESSURE PUMPING ENGINES.

These Pumping Engines are fitted complete on a Strong Bed-plate, and are adapted for Forcing Water out of Mines, Water Works for Towns, Irrigation, and Feeding Boilers; they are also used as Stationary Fire Engines, and are fitted with or without Brass-lined Barrels. They can also be applied as Power Engines, for Driving the Mechanics' Shops in Mills, &c., when used for Feeding the Boilers.

Diam. of Pump.	Diam. of Cylinder.	Diam. of Suction Pipe.	Diam. of Discharge Pipe.	Diam. of Steam Pipe.	Strokes.	No. of Revolutions.	Gallons per Hour.	Weight.	Dimens. of Foundation Plate.	Price.	With Brass Lined Barrels.	Extra Strokes.
2 inch.	4 inch.	1 inch.	1 inch.	1 inch.	4 inch.	96	435	2 0 0	3 2 by 1 1	\$ s. d.	\$ s. d.	\$ s. d.
2½ "	4 "	1½ "	1½ "	1 "	4 "	96	848	7 0 0	4 6 by 1 8			
2½ "	4 "	1½ "	1½ "	1 "	5 "	96	1060	7 1 0	4 6 by 1 8			
3 "	6 "	3 "	2½ "	1½ "	6 "	84	1284	9 3 0	"			
3½ "	7 "	3½ "	3 "	1½ "	7 "	84	2038	12 0 0	5 3 by 2 0			
4 "	8 "	4 "	3 "	1½ "	8 "	72	2610	14 0 0	"			
4½ "	9 "	4½ "	3½ "	2 "	9 "	72	3714	22 0 0	6 0 by 2 8			
5 "	10 "	5 "	4 "	2 "	10 "	60	4250	36 0 0	"			
6 "	12 "	6 "	6 "	2½ "	12 "	60	7344	60 0 0	8 9 by 3 0			

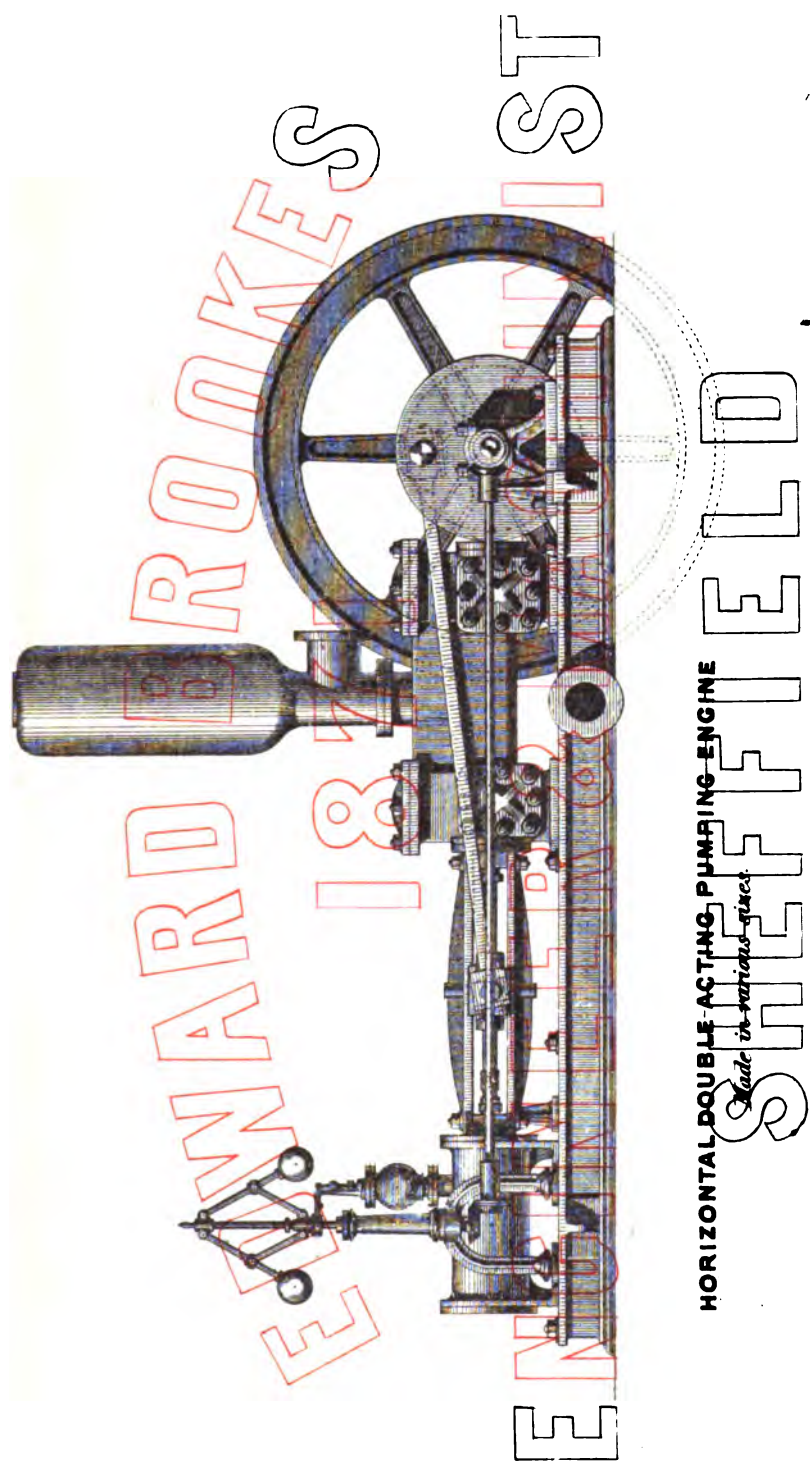
Packing and Cases extra.

When applying for Pumping Engines for Mines, Water Works, &c., it is necessary to state the Vertical Height from the surface of the water from which the Pump obtains its supply, to the point at which it is to be delivered; also, the number of gallons or cubic feet required per minute. The Pumps should never be more than 25 feet vertically above the source of supply, in which case a foot Valve should be applied.

The following **DOUBLE-ACTING PUMPING ENGINES** have been constructed to work in pairs, forcing water to various elevations, as under:—

Diameter of Pump.	Diameter of Cylinder.	Gallons per Hour.	Vertical Height Forced.
5 inches.	10 inches.	8,500	250 feet.
5½ "	12 "	12,000	480 "
6 "	12 "	14,388	180 "
7 "	14 "	21,600	260 "
8 "	8 "		12 "
11 "	31 "	36,000	420 "
13 "	34 "	60,000	510 "



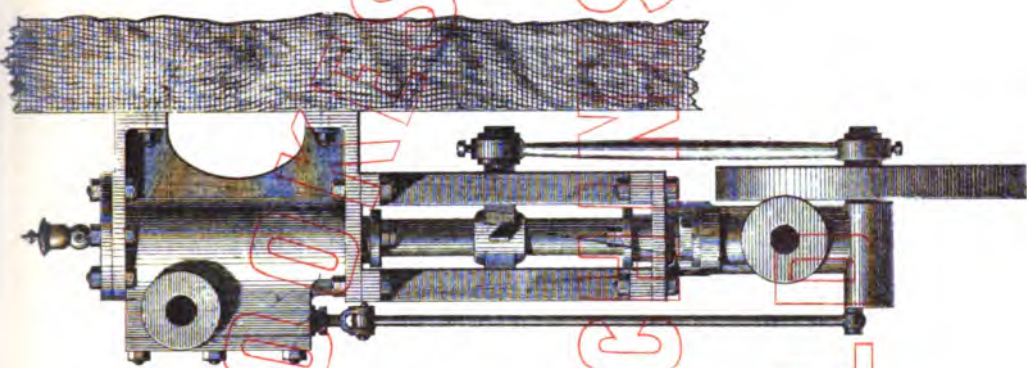
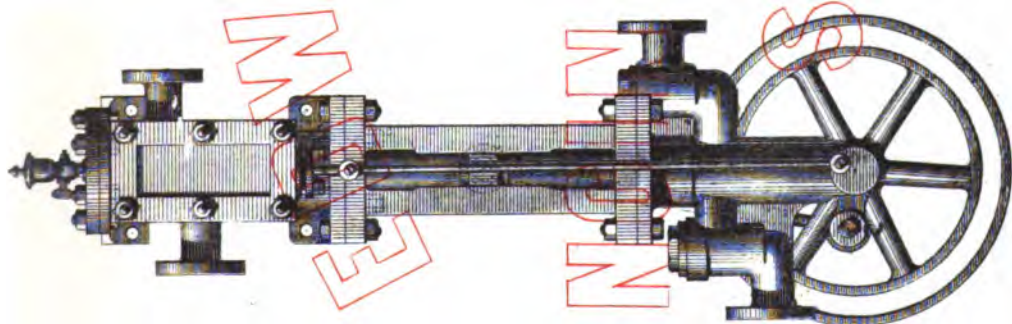


HORIZONTAL DOUBLE ACTING PUMPING ENGINE

*Made in various sizes*

FORWARD 1871 ROKES 1871 ST  
SHEFFIELD





WARD BR

1071  
VERTICAL ENGINE.

Steam Cylinder 3 inches diameter, 6 inches stroke.  
Pump Ram 1 1/4 inches diameter, 6 inches stroke.

FEER & MAC

HEFFIEL

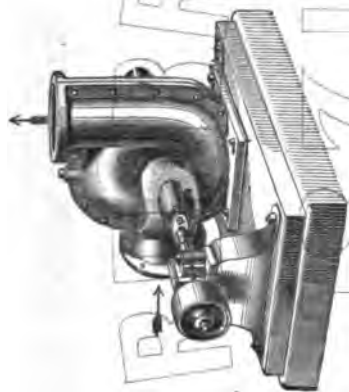
EN

ST





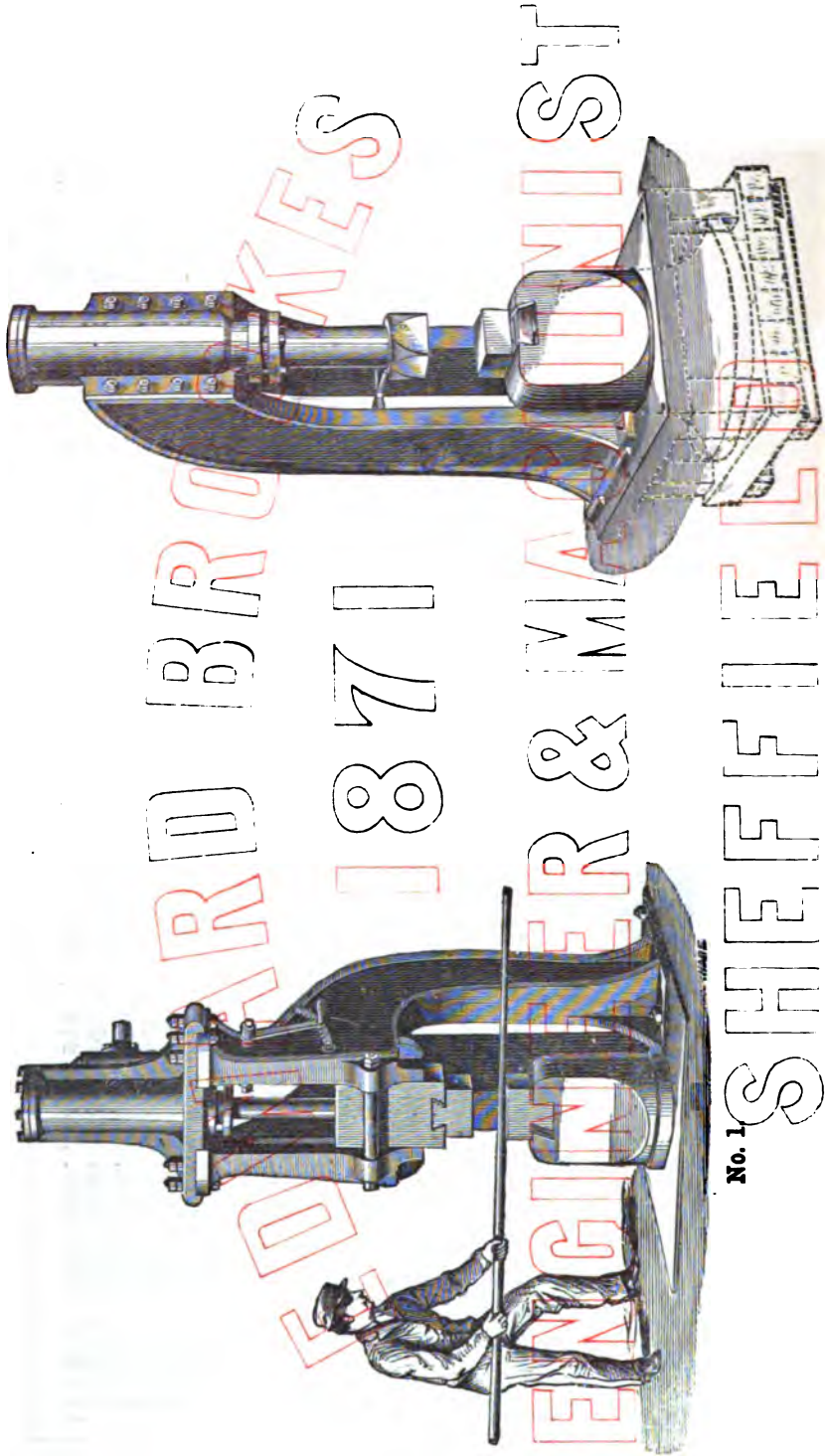
IMPROVED CENTRIFUGAL PUMP.



These Centrifugal Pumps are constructed on the most improved modern principles, and yield an exceedingly high useful effect. They are manufactured of the very best materials,—all Shafts of Steel, Bushes of tough Gun Metal, and the Workmanship cannot be surpassed. Particular attention having been paid to good and strong proportions, long bearings, and efficient lubrication, they are confidently recommended as being the best, most durable, and cheapest Centrifugal Pumps made.

No. of Pump.	Average quantity raised in Gallons per minute.	Size of Driving Pulley.	Max. Power to lift 1 foot high.	Price of Pump complete.	Price of Foot Valve and Grating.	Price of Pipes per foot in length, 7 in. Bore and 7 Bore included.	Price of Cast-iron Flange Bends.	Price of Drilling Balls per foot.	Price of spare Dies, Steel Bore, and set of Reamers.
1	75	4in. by 4in.	0.03 h.p.	10	1 15	0 2 6	0 8	0	3 10
2	150	6in. " 4in.	0.08 "	12	2 0 0	0 3 0	0 10	0	4 15
3	300	8in. " 6in.	0.13 "	18	3 0 0	0 4 0	0 13	0	6 10
4	500	9in. " 8in.	0.18 "	24	3 15 0	0 5 0	0 16	0	8 10
5	800	12in. " 9in.	0.28 "	32	5 0 0	0 7 0	1 5	0	12 10
6	1300	15in. " 12in.	0.50 "	40	6 0 0	0 9 0	1 8	0	15 0
7	2000	18in. " 10in.	0.75 "	50	8 0 0	0 12 0	2 0	0	18 10
8	3000	20in. " 12in.	1.10 "	70	11 0 0	0 15 0	2 10	0	25 0
9	5000	24in. " 12in.	1.50 "	105	16 0 0	1 0 0	3 0	0	36 0
10	8000	30in. " 12in.	2.75 "	180	25 0 0	1 12 0	5 0	0	60 0

Full particulars of Speeds for different Lifts ; Weights and Measurements for Shipment, and all other information given on application.



No. 1

No. 2.

PATENT STEAM HAMMERS, FOR SMITHS' WORK, &c.

The Steam Hammers, shown by the Engravings, are specially designed for Smiths' work of every kind. For many years, particular attention has been given to Machines of this class, and they have been adapted even to the lightest description of forgings, such as have usually been made by hand. In consequence of the almost endless variety of purposes to which they are applicable, they are economical even in the smallest smithies, with only a single fire, and indeed none ought to be without one. Some of their principal advantages are:—

- 1.—A great saving in wages, as one smith with a Steam Hammer can do as much as two or three without it, and for the smaller sizes he will not need any assistant. If required, they can, without extra charge, be made to work by the foot.
- 2.—Great economy in Fuel, as at one heating of the iron so much more work can be done than is possible by hand.
- 3.—Economy in Iron, since scrap, old shafts, &c., which commonly are almost useless, can be worked up into forgings of the very best quality.
- 4.—The forgings are so accurately finished, as to require little labour in fitting and turning.

In many cases the saving amounts to 50 per cent., or even more, defraying the cost of the Hammer in a few months.

Each Hammer is tested with steam before delivery, is supplied with stop-valve, screw-keys, water cock, &c., and can easily be fixed and started in a single day by any ordinary mechanic.

The self-acting motion is of the simplest and most efficient kind, working without jar or shock, and the Hammer can also be worked by hand with perfect ease.

In quoting the size of any Hammer, the pressure of steam above the piston is not included. Thus, in a "5 cwt. Hammer," the tup, piston, &c., weigh at least 5 cwt.; but with steam at 30 lbs. per square inch on the piston, the total falling weight is more than 17 cwt.

All the Hammers are double-acting, are made to work either self-acting or by hand, and will strike lightly or heavily, quickly or slowly, long or short strokes, and elastic or dead blows, as desired.

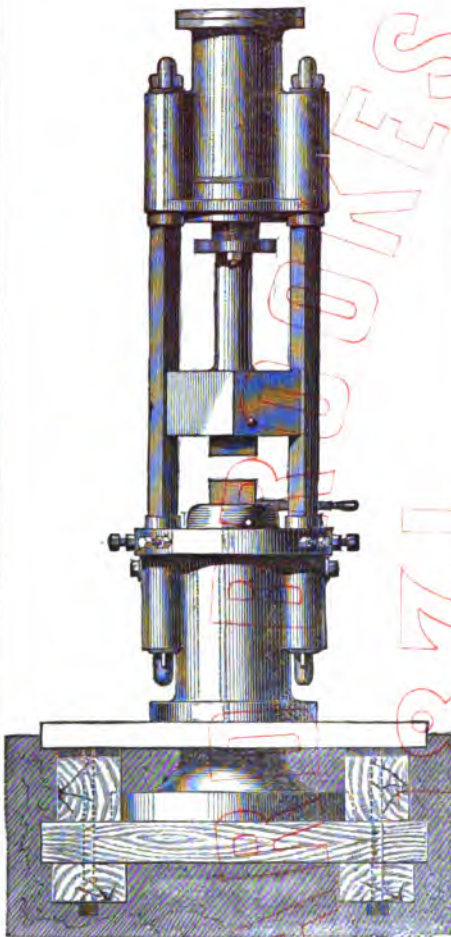
The form of the Framing combines the utmost strength, with remarkable convenience for working. It consists of two castings separate from the baseplate and cylinder, and allowing a shaft to be laid across the anvil in either direction.

The Anvil Block is also a separate casting, which is turned to fit into a bored opening in the baseplate, and rests upon a simple foundation of timber, as shown on engraving No. 2. The Hammer Heads are of wrought iron.

	Steam Hammers, as shown on Engraving No. 1.					Steam Hammers, as shown on Engraving No. 2.				
	1½-cwt. Hammer.	1-cwt. Hammer.	8-cwt. Hammer.	5-cwt. Hammer.	7-cwt. Hammer.	1½-cwt. Hammer.	1-cwt. Hammer.	8-cwt. Hammer.	5-cwt. Hammer.	7-cwt. Hammer.
Stroke .....	11 inch.	13 inch.	17 inch.	21 inch.	24 inch.	13 inch.	17 inch.	17 inch.	21 inch.	24 inch.
Weight without Anvil Blocks .....	10 cwt.	24 cwt.	33 cwt.	43 cwt.	60 cwt.	20 cwt.	38 cwt.	38 cwt.	43 cwt.	55 cwt.
Weight of Anvil Blocks .....	4 "	12 "	24 "	40 "	56 "	12 "	24 "	24 "	40 "	56 "
Average self-acting speed per minute .....	400 blows.	350 blows.	300 blows.	250 blows.	200 blows.	350 blows.	300 blows.	300 blows.	250 blows.	200 blows.
Average diameter of Shaft, which can easily be driven out at a single heat .....	3 inch.	3 inch.	4 inch.	6 inch.	7 inch.	3 inch.	4 inch.	4 inch.	6 inch.	7 inch.
With steam at a good pressure, the Hammers will do much heavier work.										

Particulars of smaller Steam Hammers, and also of larger ones up to 20 Tons, sent on application.

## THE ILLUSTRATED SHEFFIELD LIST.

PATENT STEAM STAMPING  
HAMMERS.

These Steam Hammers have been specially designed for *forging with Dies*, (a method by which the utmost possible accuracy and economy are secured,) also for Cutting out, Stamping, Punching, &c.

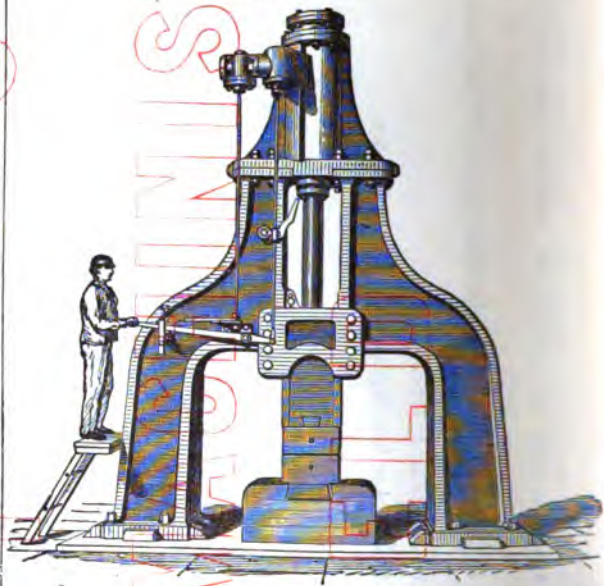
The Dies can be changed and adjusted with great facility, and the Hammers will make forgings of all kinds, such as are used by Engineers, Machinists, Gunmakers, Spindle and Flyer Makers, Hardware Manufacturers, and all others who require any *smith-work whatever*.

All the pieces stamped in this manner are exactly of the same size, and are so accurate as to require scarcely any finishing by hand or machine.

The Hammers are made in various sizes, they work either self-acting, by hand, or by foot, at any speed from one to several hundred blows per minute, the length of stroke and force of blow can be regulated instantly, the working parts are of the simplest and strongest character, and they can be managed by any unskilled workman without assistance.

The economy which they effect in wages, etc., and the remarkable improvement in the quality of the forgings made by them, recommend their universal adoption.

Price, £

PATENT DOUBLE AND SINGLE-ACTING STEAM  
HAMMERS.

Hammers of 15 cwt., and all larger sizes, are made in the form shown above.

These Hammers can be worked either Double Acting or Single Acting, the change made instantly without stopping. They are usually fitted with Hand-worked valve gear, as shown in the Engraving, but they are also made Self-acting when preferred.

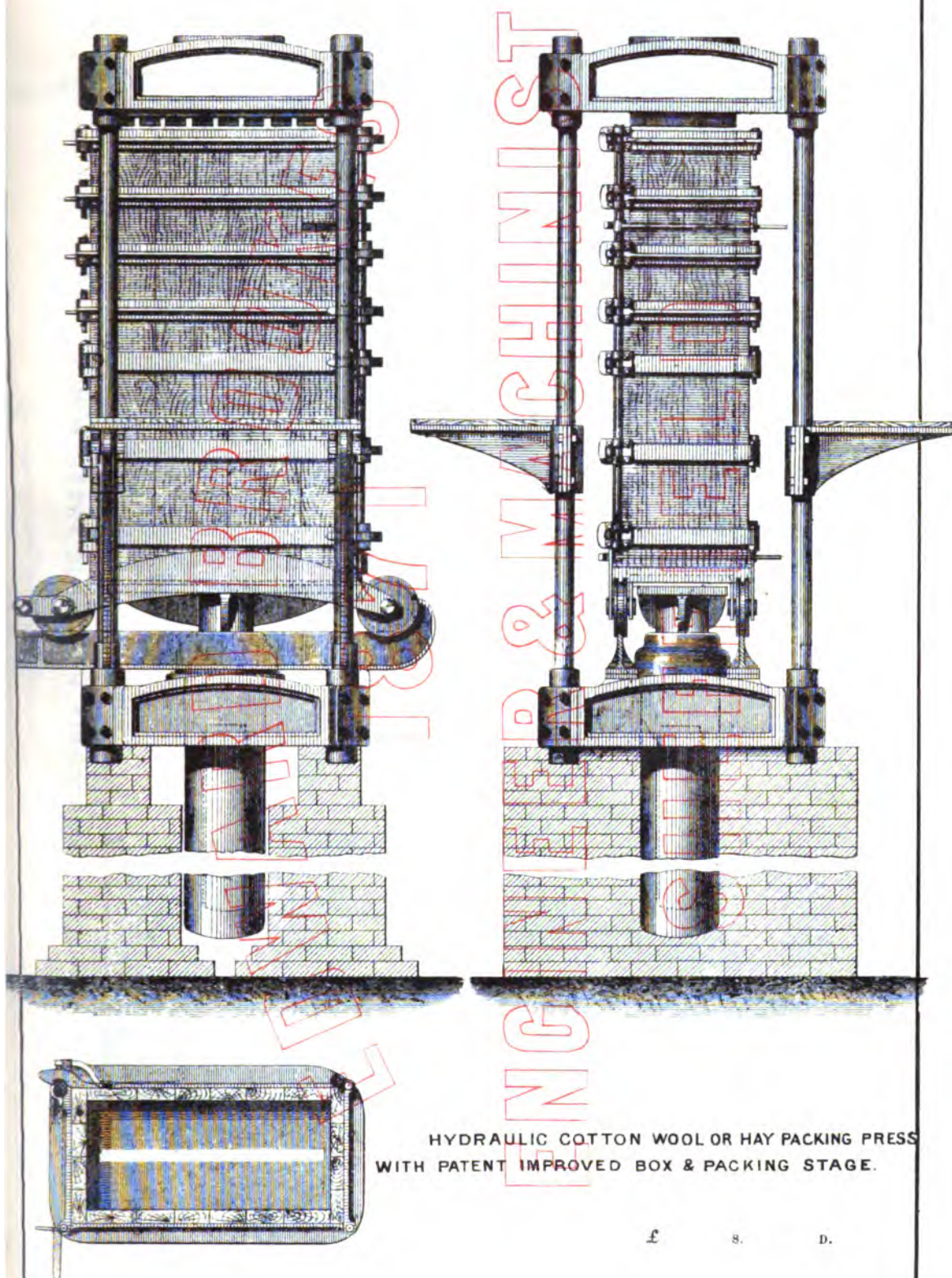
The Baseplates and the bottoms of the Side Frames are accurately planed and fitted. If the latter are left unplaned, as is sometimes the case when the Baseplates are made by the purchaser, a reduction is made in the prices.

The Piston and Piston Rod are made in a single solid forging.

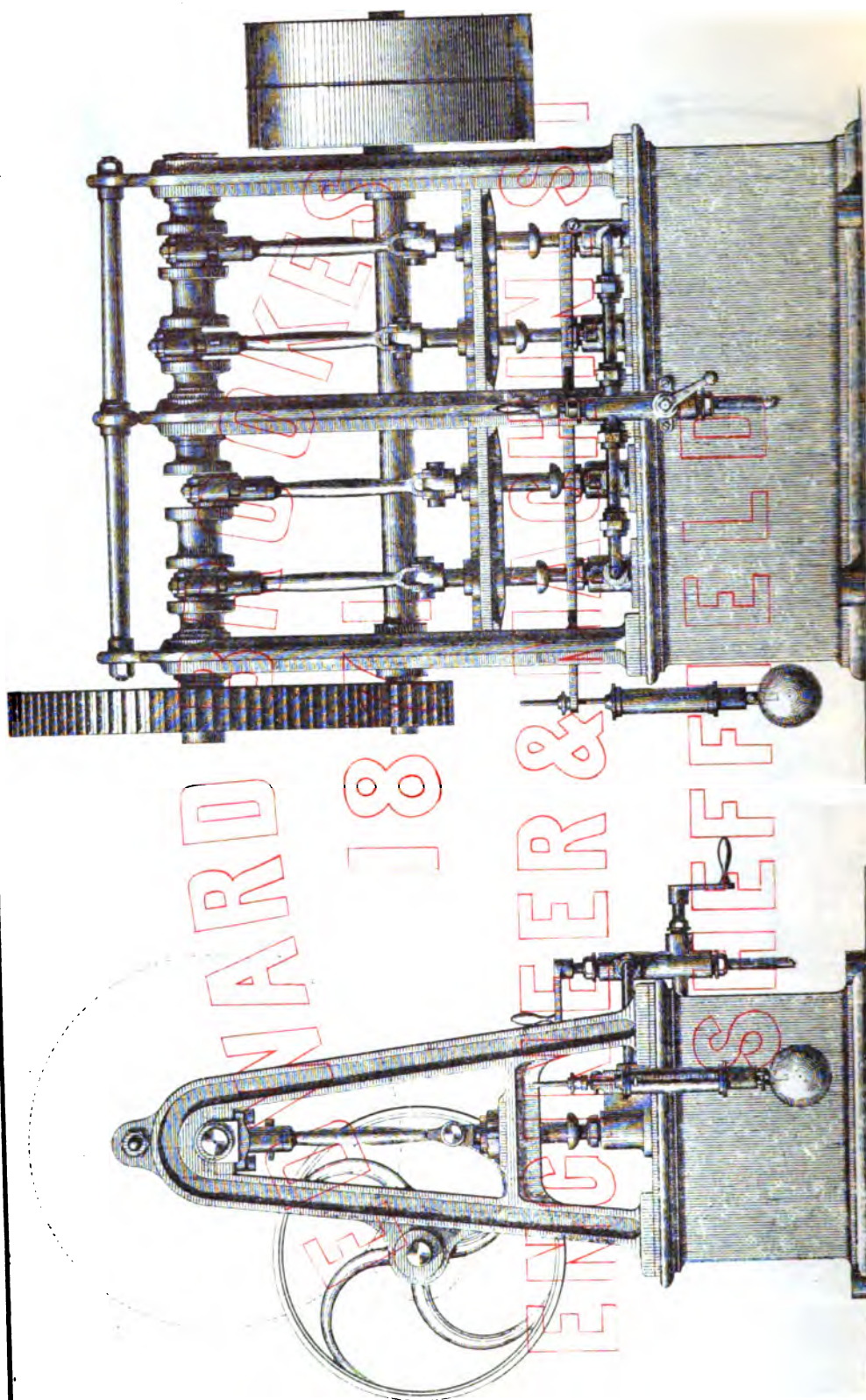
Weight of Hammers.	15 cwt.	20 cwt.	30 cwt.	40 cwt.	50 cwt.	60 cwt.	80 cwt.	100 cwt.	Price. £ s. d.
Diameter of Cylinder .....									inches
Longest Stroke....	30	33	39	45	51	54	60	66	inches
Steam Power required ....about									horses
Weight without Anvil Block or Baseplate.....about	5½	6	10	11	16	17	25	27	tons
Weight of Anvil Block ....about	6	8	12	16	20	24	32	40	tons
Weight of Baseplates ....about	2½	2½	5½	5½	8	9	13	14	tons
Width inside framing .....	5-7	5-8½	8-0	8-2	9-6	9-8	11-6	11-7	ft.&in.
Height under framing .....	4-6	4-7½	4-9½	5-2½	5-3½	5-8	6-2	6-6	ft.&in.

Estimates for larger Hammers sent on application.





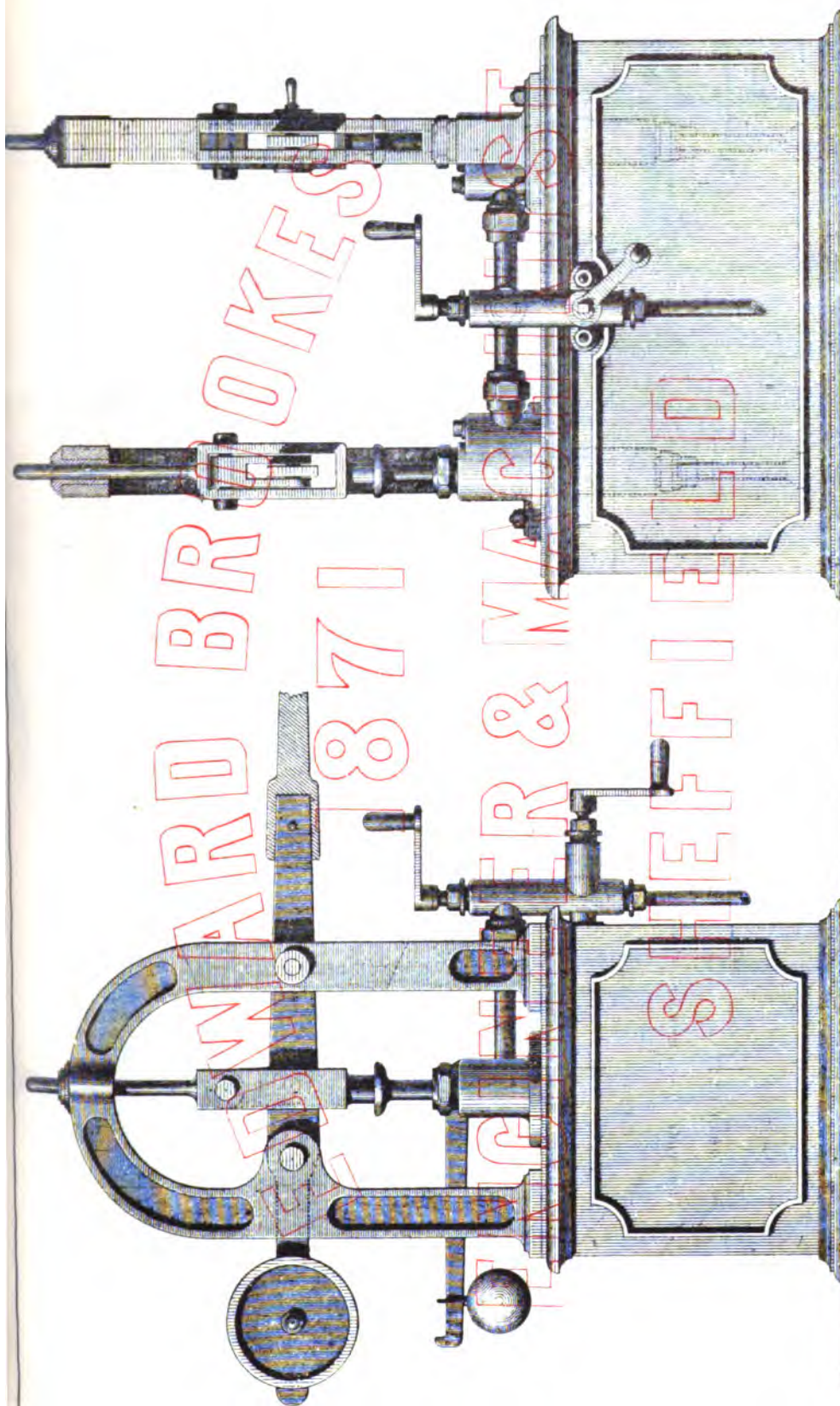




QUADRUPLE HYDRAULIC PRESS PUMPS.

Also made with Two or Three pumps

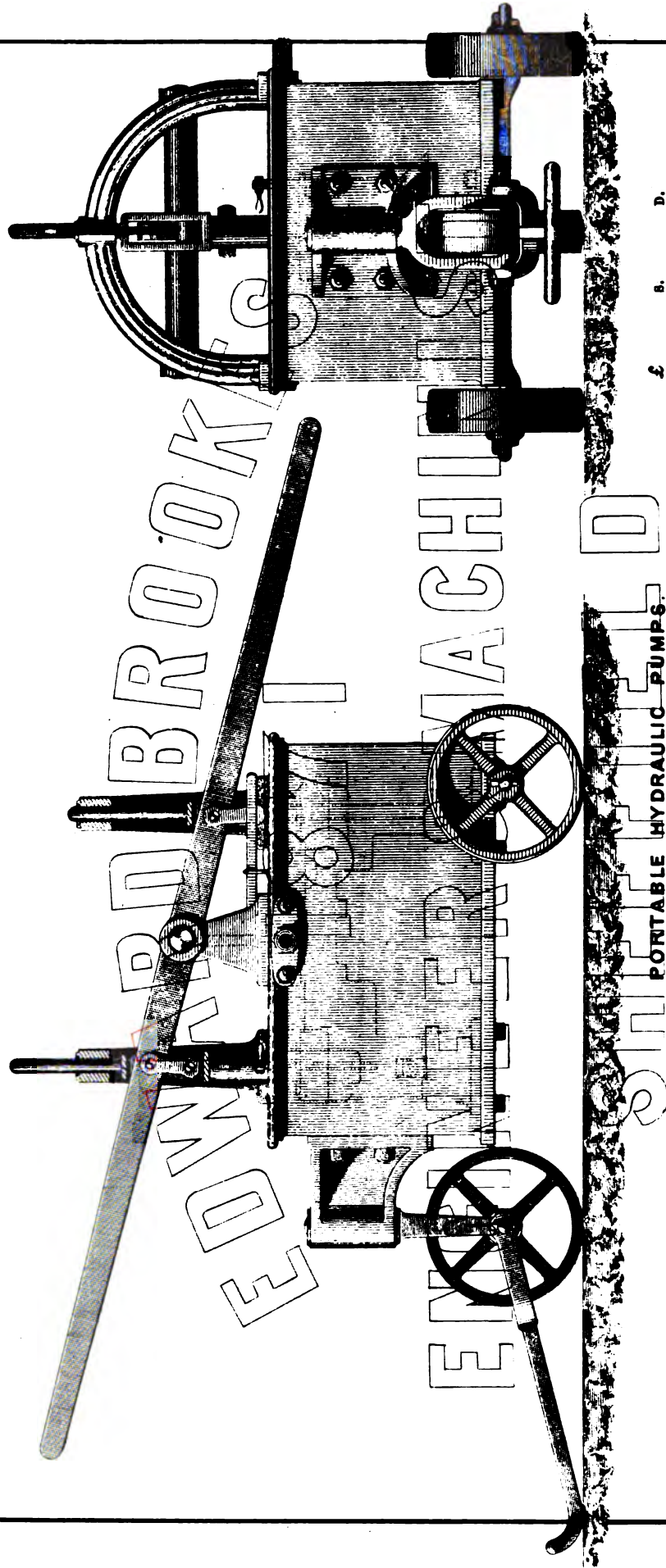
£      s.      d.



HAND HYDRAULIC PRESS PUMPS.

£ s. d.

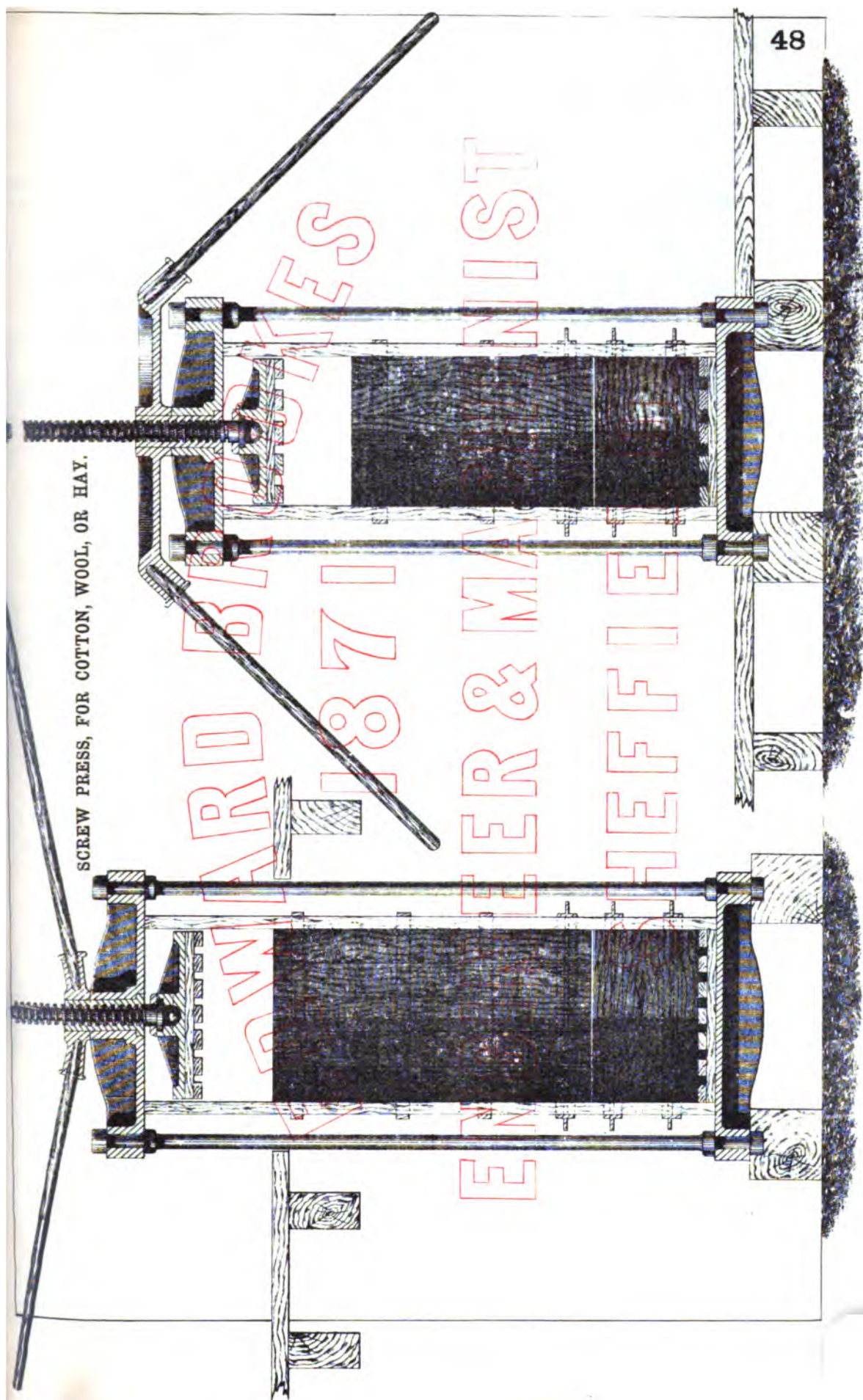




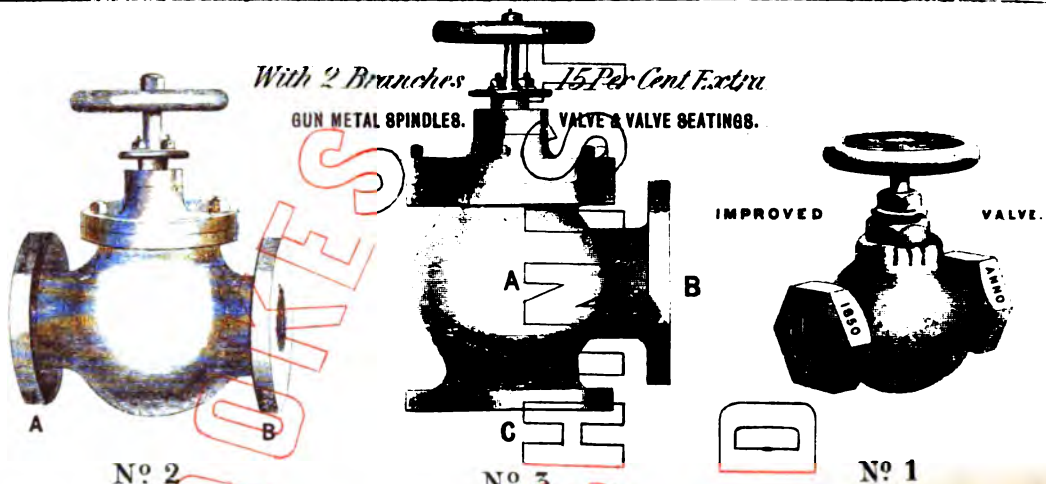
*For Testing Tubes, Boilers, &c.*



SCREW PRESS, FOR COTTON, WOOL, OR HAY.



## THE ILLUSTRATED SHEFFIELD LIST.



Bore, Inches.	Dia. of Flange.	Length from A to B.	Price.		
			£	s.	d.
1½	5	6	0	16	0
2	6½	9½	1	2	6
2½	7	10	1	10	0
3	7½	12	1	17	6
3½	8	14	2	5	0
4	9	14	2	15	0
4½	10	16	3	5	0
5	10	16	3	15	0
6	12	18	5	0	0
7	13½	20	6	5	0
8	14½	22	7	10	0
9	15½	24	9	0	0
10	17	26	10	10	0
11	18	28	12	5	0
12	19	30	14	0	0

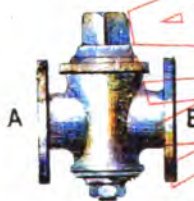
Bore, Inches.	Dia. of Flange.	Length from A to B.	Length from A to C.	Price.		
				£	s.	d.
1½	5	3½	3½	0	16	0
2	6½	5½	5½	1	2	6
2½	7	6	6	1	10	0
3	7½	6	6	1	17	6
3½	8	7	7	2	5	0
4	9	7½	7	2	15	0
4½	10	7½	7	3	5	0
5	10	8	8	3	15	0
6	12	9½	10	5	0	0
7	13½	10	10½	6	5	0
8	14½	11	11	7	10	0
9	15½	12	12	9	0	0
10	17	13	13	10	10	0
11	18	14	14	12	5	0
12	19	15	15	14	0	0

BRASS.			IRON.		
Bore, Inches.	Price.		Bore, Inches.	Price.	
	£	s. d.		£	s. d.
1½	0	4 3	1½	0	4 0
2	0	6 0	2	0	6 0
2½	0	8 6	2½	0	7 6
3	0	11 3	3	0	10 0
3½	0	15 0	3½	0	14 0
4	1	7 6	4	1	2 6
4½	3	0 0			

## BACK PRESSURE VALVES.

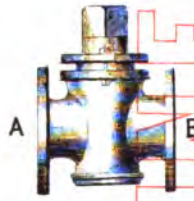
Bore, Inches.	Price.		Bore, Inches.	Price.	
	£	s. d.		£	s. d.
1½	0	4 0	1½	0	4 0
2	0	5 6	2	0	5 0
2½	0	7 6	2½	0	7 6
3	0	10 0	3	0	10 0
3½	0	13 6	3½	0	13 6
4	1	5 0	4	1	5 0

## IRON PLUG TAP.



Nº 6

## IRON GLAND TAP.



Nº 7

## IRON SIDE BRANCH GLAND TAP.

In Brass, 1s. 9d. per lb., Finished.



Nº 8

Bore, Inches.	Dia. of Flange.	Length from A to B.	Price.		
			£	s.	d.
1½	5	6	0	14	0
2	6½	8	1	0	0
2½	7	10	1	5	0
3	7½	12	1	10	0
3½	8	13	1	15	0
4	9	14	2	0	0

Bore, Inches.	Dia. of Flange.	Length from A to B.	Price.		
			£	s.	d.
1½	5	3	0	15	0
2	6½	10	1	5	0
2½	7	12	1	12	6
3	7½	13	1	17	6
3½	8	14	2	4	0
4	9	14	2	10	0

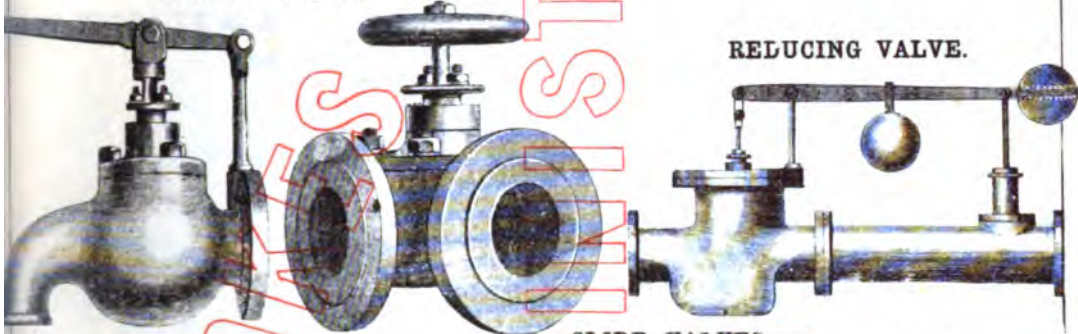
Bore, Inches.	Length from A to B.	Length from A to C.	Dia. of Flange.	Price.		
				£	s.	d.
1½	4	3½	5	0	15	0
2	5	5½	6½	1	5	0
2½	5½	5½	7	1	12	6
3	6	6½	7½	1	17	6
3½	7	6½	8	2	4	0
4	7½	7	9	2	10	0

In ordering any of the above, it is necessary to state the number on the list.



## THE ILLUSTRATED SHEFFIELD LIST.

SLUICE VALVES.



No 5

No 4

SLIDE VALVES

No 13

No 11

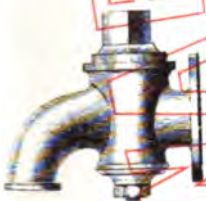
BORE, INCHES.	DIA. OF FLANGE.	PRICE.	BORE, INCHES.	DIA. OF FLANGE.	LENGTH FROM A TO B.	PRICE.	BORE, INCHES.	DIA. OF BLOCK.	THICKNESS OF BLOCK.	PRICE.	BORE, INCHES.	LENGTH FROM A TO B.	PRICE.
		£ s. d.				£ s. d.				£ s. d.			£ s. d.
1½	5	0 16 0	2	6½	7	2 4 0	2	6½	3½	2 0 0	2	2 6	5 0 0
2	6½	1 2 6	2½	7	7	2 12 0	2½	7	3½	2 10 0	3	3 0	7 10 0
2½	7	1 10 0	3	7½	8	3 0 0	3	9	4	3 0 0	4	3 3	10 0 0
3	7½	1 17 6	4	9	9	3 19 0	4	10	4½	4 0 0	5	3 6	12 10 0
3½	8	2 5 0	5	10	12	4 19 0	5	11½	4½	5 0 0	6	3 9	15 0 0
4	9	2 15 0	6	12	14	5 19 0	6	12	4½	5 10 0	7	4 0	17 10 0
5	10	3 15 0	7	13½	15	7 4 0	7	14	4½	8 0 0	8	4 3	20 0 0
6	12	5 0 0	8	14½	16	8 5 0	8	15	6	9 10 0	9	4 6	22 10 0
7	13½	6 5 0	9	16½	17	9 7 0	10	18	7½	12 0 0	10	4 6	25 0 0
8	14½	7 10 0	10	17	18	10 9 0	12			18 0 0			
9	15½	9 0 0	12	19	22	13 4 0							
10	17	10 10 0	13	20	24	17 2 0							
11	18	12 5 0											
12	19	14 0 0											

IRON BIB PLUG TAP.

IRON GLAND BIB TAP.

EQUILIBRIUM THROTTLE VALVE, 45/ per Inch.

No 12A



No 9



No 10



VERY STRONG HIGH-PRESSURE STEAM GLAND COCKS.—In Brass.

No 12

BORE, INCHES.	DIA. OF FLANGE.	PRICE.	BORE, INCHES.	DIA. OF FLANGE.	PRICE.	BORE, INCHES.	PRICE.
		£ s. d.			£ s. d.		£ s. d.
1½	5	0 14 0	1½	5	0 15 0	1½	0 5 0
2	6½	1 0 0	2	6½	1 5 0	2	0 7 0
2½	7	1 5 0	2½	7	1 12 6	1	0 10 0
3	7½	1 10 0	3	7½	1 17 6	1½	0 15 0
3½	8	1 15 0	3½	8	2 4 0	1½	1 4 0
4	9	2 0 0	4	9	2 10 0	2	2 2 0
						2½	4 0 0

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	BRASS MOUNTINGS FOR LOCOMOTIVE & STATIC ENGINES & BOILERS, &c.									
		In.	£	s.	d.	In.	£	s.	d.	In.	
	Steam Whistle ..	1½	0	7	6	Cocks for Press. Gauge	0	11	0	Steam Gland Cocks,	
	Ditto ..	2	0	10	0	Ditto ditto	0	16	0	Screwed to Gas	
	Ditto ..	2½	0	12	6	Syphon for ditto	0	16	0	Thread .....	
	Ditto ..	2½	0	16	0	Cylinder Mud Cocks	0	10	0	Ditto ditto 2	
	Ditto ..	3	1	0	0	Ditto ditto	0	10	0	Ditto ditto 2½	
	Ditto ..	3½	1	2	6	Coupling for Warm- ing and Feed Pipe	0	4	6	Ditto ditto 3	
	Ditto ..	3½	1	5	0	Ditto ditto	0	5	6	Steam Plug Cocks,	
	Ditto ..	3½	1	10	0	Ball and Socket Pipes				Screwed to Gas	
	Ditto ..	4	1	15	0	per set.....	0	16	0	Thread .....	
	Glass Water Gauges, ½		0	15	0	Ditto ditto				Ditto ditto ½	
	Ditto No. 1. ½		1	5	0	Ditto ditto				Ditto ditto ½	
	Ditto No. 2. ½		1	12	6	Spring Syphon .. 1½	0	5	0	Ditto ditto ½	
	Ditto No. 2. ½		1	15	0	Ditto .. 2	0	6	6	Ditto ditto 1	
	Ditto round body ½		1	12	6	Ditto .. 2½	0	8	6	Ditto ditto 1½	
	Ditto with gland					Baloon Syphon .. 1½	0	1	6	Ditto ditto 1½	
	stuffing-box .. ½		1	15	0	Ditto .. 1½	0	2	0	Ditto ditto 2	
	Ditto impvd. strong ½		1	15	0	Ditto .. 2½	0	3	0	Ditto ditto 2½	
	Ditto ditto ½		1	18	0	Ditto .. 2½	0	5	0	Ditto ditto 3	
	Gauge Cocks .... ½		0	5	6	Slide Bar Syphon	0	2	6	Stop Cocks .....	
	Ditto .... ½		0	9	0	Pedestal Syphon ..	0	2	6	Ditto .....	
	Ditto ....		0	10	0	Ditto ditto	0	2	9	Ditto .....	
	Ditto ....		0	12	0	Ditto ditto	0	5	0	Ditto .....	
	Ditto .... ½		0	4	6	Relief Valves for				Ditto .....	
	Pet Cocks ..... ½		0	3	6	Steam Cylinders	2	5	0	Ditto .....	
	Ditto ..... ½		0	5	0	Ditto ditto				Ditto .....	
	Ditto ..... ½		0	7	6	Ditto ditto				Ditto .....	
	Stm. Chest Grease					Ball Valves.....	0	4	8	Round water-way 1½	
	Cocks.....		0	11	6	Hose Unions .... 1	0	4	0	Ditto ditto 2	
			1	5	0	Ditto .... 1½	0	6	0	Boiler Cocks .... ½	
	Do. for Valve Spindle		0	8	0	Ditto .... 1½	0	8	0	Ditto .... ½	
	Cylinder Grease Cocks		0	10	0	Ditto .... 2	0	10	0	Ditto .... ½	
	Ditto ditto		0	11	0	Ditto .... 2½	0	12	0	Ditto .... ½	
	Ditto ditto		0	12	0	Ditto .... 2½	0	14	0	Ditto .... 1	
	Ditto ditto					Ditto .... 2½	0	16	0	Ditto .... 1½	
	Warming Cocks ..		1	3	6	Ditto .... 3				Ditto .... 1½	
	Ditto ..		1	3	6	Steam Gland Cocks,				Vacuum Valves..	
	Scum Cocks .....		1	5	6	Screwed to Gas				Macnaught's ....	
	Ditto .....					Thread .....	0	2	6	Indicator Tap ..	
	Ditto .....					Ditto ditto ½	0	3	0	Steam Traps .... ½	
	Blow-off Cocks.... 1½		0	15	0	Ditto ditto ½	0	4	0	Ditto .... ½	
	Ditto .... 2		1	5	0	Ditto ditto ½	0	6	0	Ditto .... 1	
	Ditto .... 2½		3	3	0	Ditto ditto 1	0	9	0	Ditto .... 1½	
	Blow-off Cocks.... 3		4	4	0	Ditto ditto 1½	0	12	6	Ditto .... 1½	



# TEST

*Manchester, Sheffield, and Lincolnshire Railway.*

*Engineer's Office, Manchester, October 3<sup>rd</sup>*

DEAR SIR,—I have tried the Lubricator introduced by you, and with as results. It is simple and effective in its arrangements, and I consider it a gr

Yours truly, pro C. SACRE, L.S.,

To Mr. James Edwards,

W. F. BUTTERW

22, Market Place, Manchester.

(Agent to Edward Brookes, Sheffield.)

*Manchester, Sheffield, and Lincolnshire Railway.*

*Locomotive and Carriage Department, Sheffield, Nov. 20<sup>th</sup>*

DEAR SIR,—In reply to your enquiry relative to the working of your Tallow Cups, I have much pleasure in bearing testimony to their satisfactory on our Locomotives; and shall, on an early opportunity, endeavour to supply each of our Engines.

I am, dear Sir, yours obediently,

Mr. E. Brookes, Sheffield.

HENRY APP

*Lancashire and Yorkshire Railway.*

*Locomotive Department, Manchester, May 14<sup>th</sup>*

DEAR SIR,—In reply to your enquiry, the Patent Lubricators you have for the past four years, work to my entire satisfaction. I consider your the best out.

Yours truly,

Mr. Edwd. Brookes,

WM. YATI

Sheffield.

MR. EDWARD BROOKES, SHEFFIELD.

*Norfolk Gun Works, Sheffield, Feb. 27<sup>th</sup>*

DEAR SIR,—The Lubricators you supplied to our Engines and Steam work to our entire satisfaction, and are a great saving in Tallow. We could much better than the Lubricators with Taps and Valves.

We are, yours faithfully, pro THOMAS FIRTH &

W. HOBSON.

MR. EDWARD BROOKES.

*Denby Iron Works, near Derby, Jan. 31<sup>st</sup>*

DEAR SIR,—The Lubricators you supplied to our Pumping and Winding work to our entire satisfaction, and effect a great saving in Tallow. Winding Engine was very difficult to start previous to your Lubricator being hard to handle after standing, but we have no difficulty now in start have every confidence in recommending your Lubricators.

Yours truly,

RD. J. BARNES.

(Manager of the Ryefield Collieries and Denby Ironworks)

*Waleswood Colliery, May 3<sup>rd</sup>*

DEAR SIR,—The Lubricators you supplied us with, more than twelve months work to our satisfaction. The Slide Valves of our Winding Engines are now for the men to handle since using your Lubricators.

We are, dear Sir, yours truly,

Mr. E. Brookes, Sheffield.

SKINNER & HOI

MR. EDWARD BROOKES.

*Park Grinding Wheel, Sheffield, Oct. 23<sup>rd</sup>*

DEAR SIR,—The Lubricator which you have supplied for our Engine the purpose to the best of our wishes; and from its simplicity (having no Valves, which frequently render repairs needful, where used), is superior to

# TESTIMONIALS.

1866.  
Satisfactory  
thing.

BETH.

1866.  
Improved  
working  
them to

LEBY.

1870.  
supplied  
lubricator

S, L.S.

1867.  
Hammers,  
sider them

SONS,

1868.  
Engines  
One large  
affixed,  
ing it. I

the Mines.)

1868.  
months since,  
much easier

FORD.

1868.  
S. & C. WARDLOW

MR. EDWARD BROOKES, SHEFFIELD.

*Sheepbridge, near Chesterfield, Jan. 17th, 1867.*

DEAR SIR,—The Lubricators you supplied to our Engines, several months since, answer very well. We find a great saving in tallow. We were about to put on new Valves, the Engines were so bad to hand, but your Lubricator has rendered it unnecessary, as they now work much easier and more regular.

I am, dear Sir,

Pro THE DEVONSHIRE SILKSTONE COLLIERY CO., LIMITED,  
CHAS. HUNT.

MR. EDWARD BROOKES, SHEFFIELD.

*Owlerton Bridge, Sheffield, Feb. 9th, 1867.*

SIR,—The Lubricator you supplied us with, six months since, works to our entire satisfaction. Our Engine works much easier, and effects a saving in coal and at least 50 per cent. in tallow; and we have much pleasure in recommending it.

We are yours respectfully,

W. ARMITAGE & Co.

MR. EDWARD BROOKES, SHEFFIELD.

*Brampton Brewery, Chesterfield, Feb. 13th, 1867.*

DEAR SIR,—We have your patent Lubricator, and find it to answer very well indeed. There is a considerable saving in oil, and we have great pleasure in recommending it.

We are yours truly,

JOHN BUNTING & Co.

MR. EDWARD BROOKES.

*Sheffield, May 27th, 1868.*

SIR,—The Patent Piston you put in our Engine, nearly two years since, has given us great satisfaction. Our Engineer took it out about a fortnight since, and says, although we had not the Cylinder bored when you put the Piston in, it is now in very good condition, and we have realised a great saving in coals. We have the utmost confidence in recommending your Piston.

Yours respectfully,

WINGFIELD, ROWBOTHAM, & Co.

*Congress Steel Works, Oughtibridge, near Sheffield, May 26th, 1868.*

DEAR SIR,—The two Patent Pistons you put in our Engines about two years since, continue to work to our entire satisfaction. Our Cylinders are in first-class condition, and we have every confidence in recommending your Pistons. They have effected a saving to us of several tons of coal per week.

We are yours faithfully,

Mr. Edward Brookes, Sheffield.

S. & C. WARDLOW.

*Castle Hill Works, Sheffield, Nov. 15th, 1868.*

DEAR SIR,—The Patent Piston you put in our Engine works very satisfactorily, and effects a great saving in coal, and we have pleasure in recommending it.

We are yours truly,

Mr. Edward Brookes, Sheffield.

STEER & WEBSTER.

*Hanover Works, Sheffield, April 26th, 1868.*

DEAR SIR,—The Patent Piston which you put in our Engine, about five months since, works admirably, and we have much pleasure in giving you this testimonial, and recommending it. We are not using so many coals as before, by a great deal.

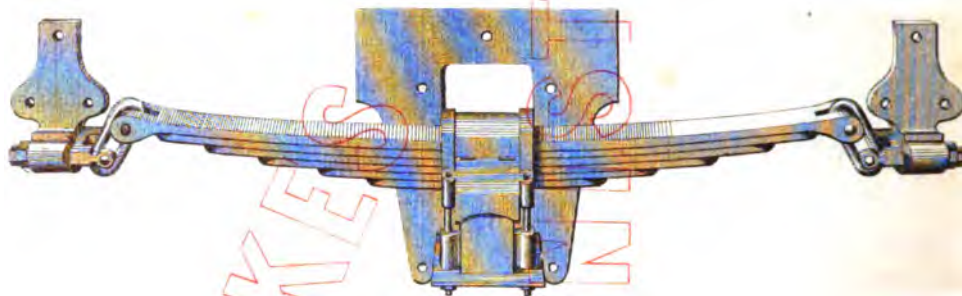
We are yours respectfully,



Railway Carriage Bearing Spring,

per Cwt.

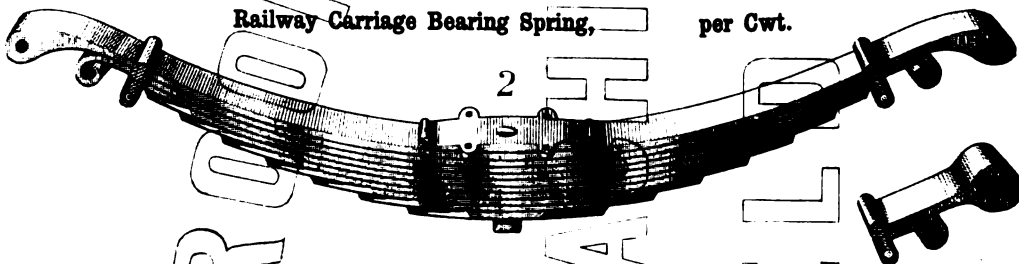
1



Railway Carriage Bearing Spring,

per Cwt.

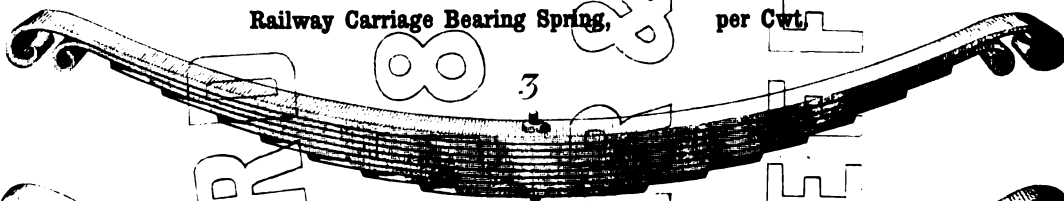
2



Railway Carriage Bearing Spring,

per Cwt.

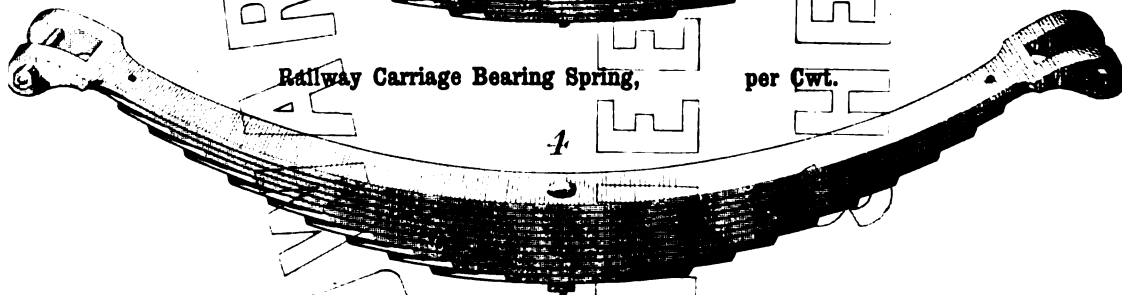
3



Railway Carriage Bearing Spring,

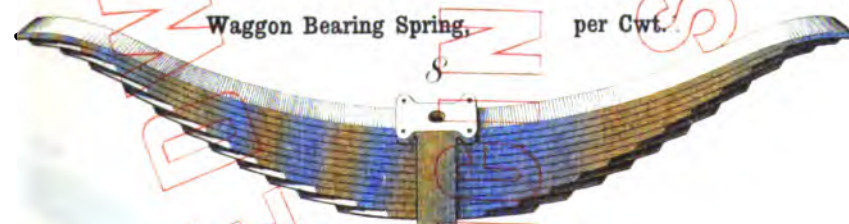
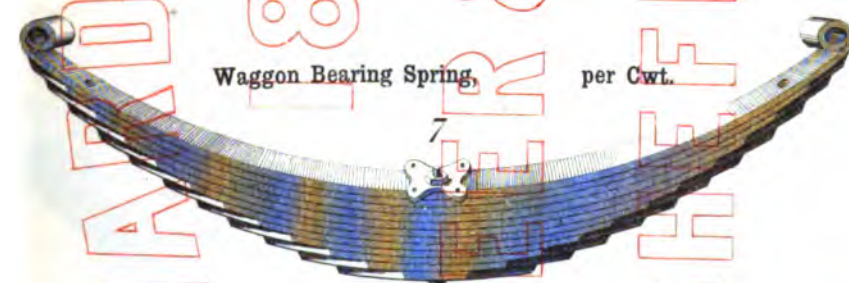
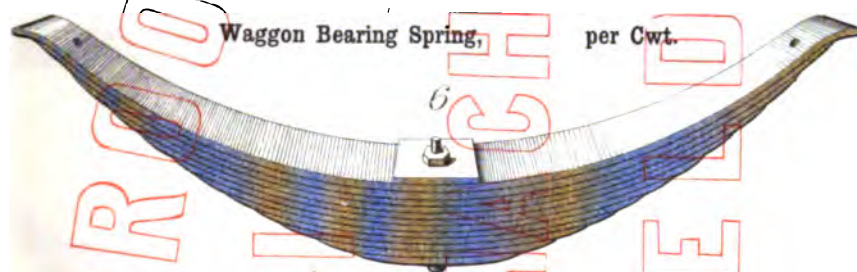
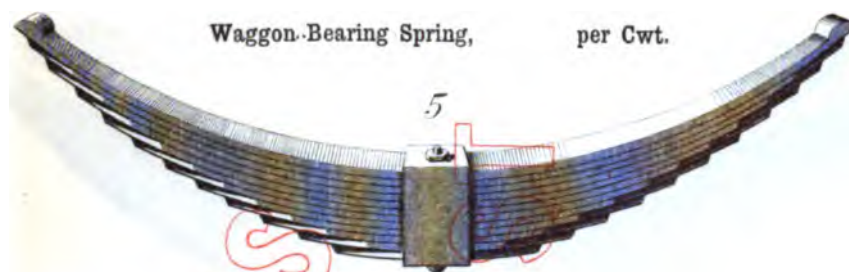
per Cwt.

4



ALL SPRINGS ARE WARRANTED FOR TWELVE MONTHS





IF MADE OF CAST STEEL,

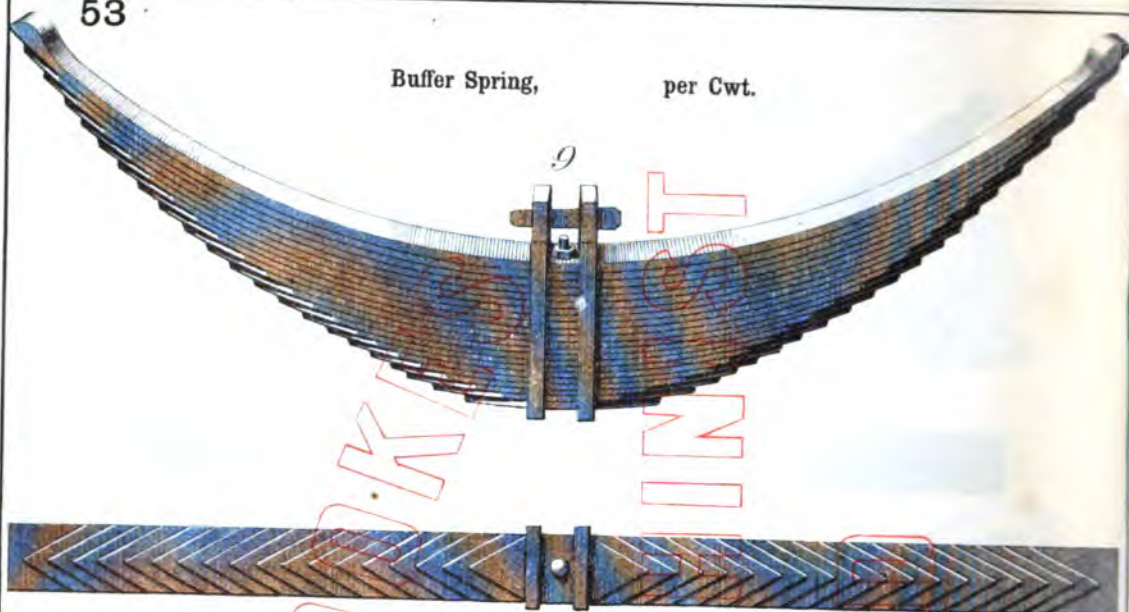
PER TON EXTRA.

53

Buffer Spring,

per Cwt.

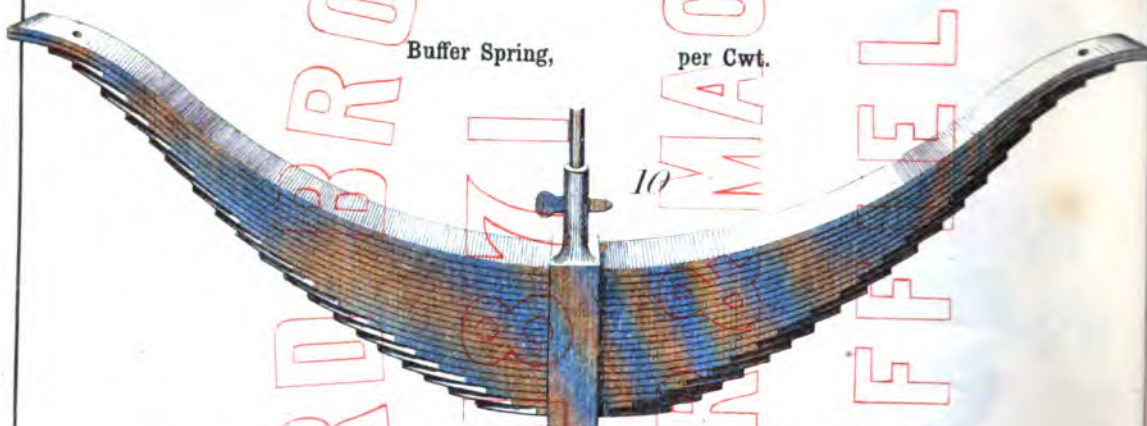
9



Buffer Spring,

per Cwt.

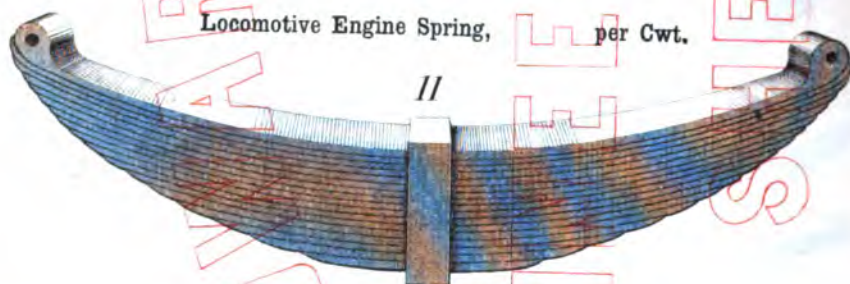
10



Locomotive Engine Spring,

per Cwt.

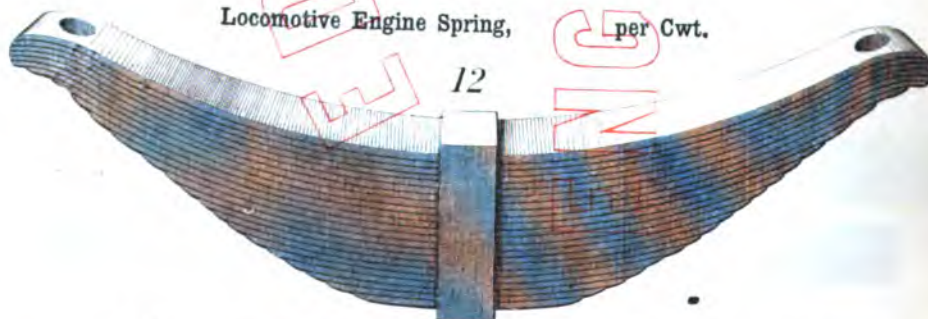
11



Locomotive Engine Spring,

per Cwt.

12

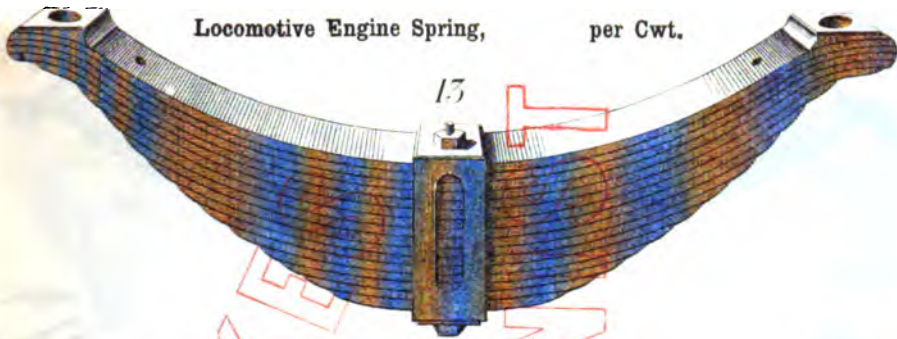


ALL SPRINGS ARE WARRANTED FOR TWELVE MONTHS



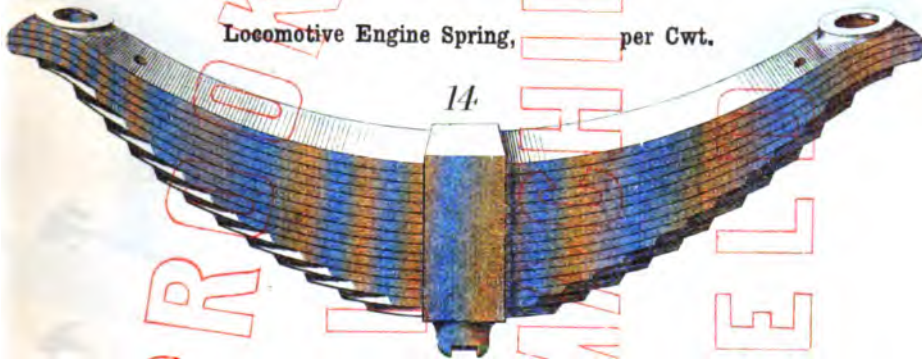
Locomotive Engine Spring, per Cwt.

15



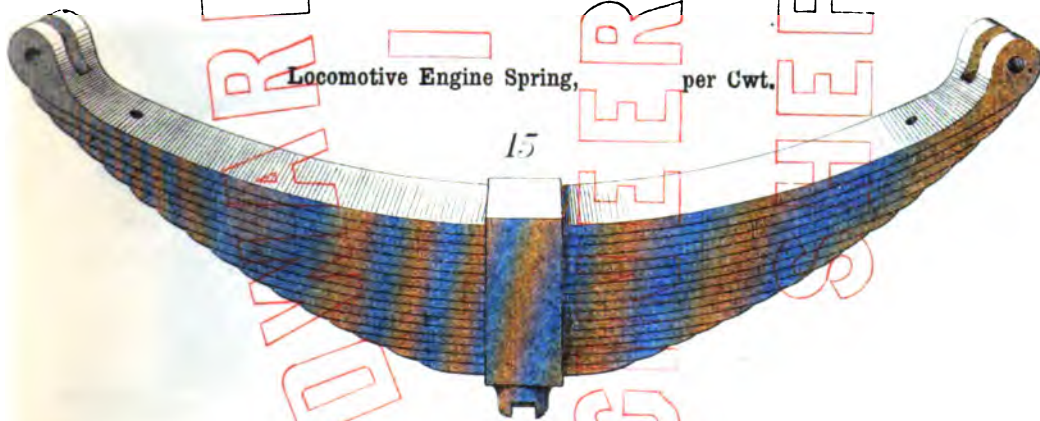
Locomotive Engine Spring, per Cwt.

14



Locomotive Engine Spring, per Cwt.

15



IF MADE OF CAST STEEL,

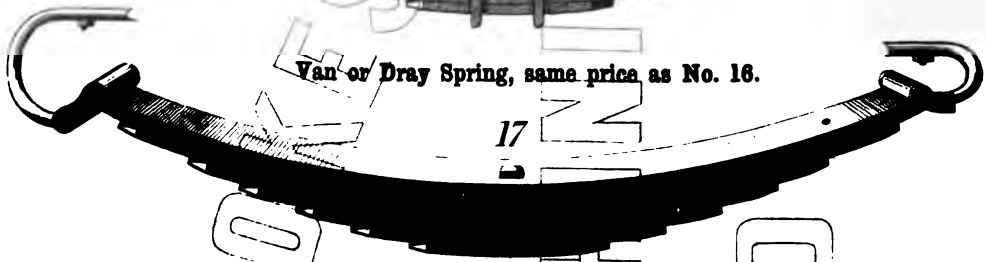
PER TON EXTRA.

## Van or Dray Spring.

Price, with 10 Plates and above, of  $2\frac{1}{2}$  in. Steel, ; of  $2\frac{1}{2}$  in., per Cwt.



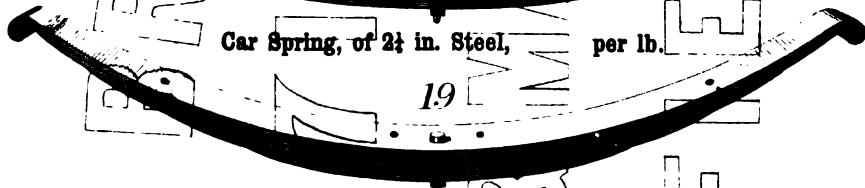
Van or Dray Spring, same price as No. 16.



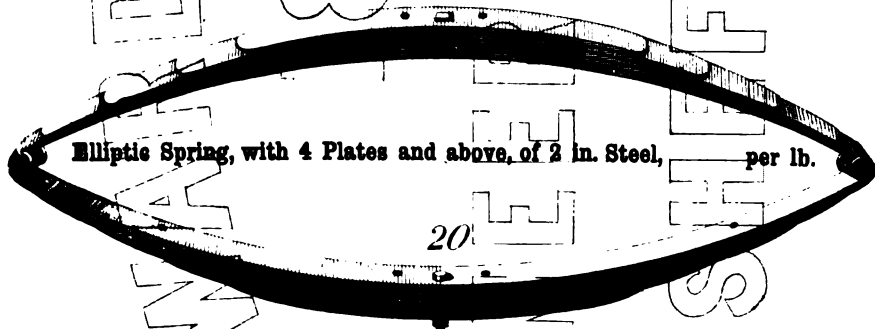
Grasshopper Spring, open ends, of  $2\frac{1}{2}$  in. Steel, per lb.



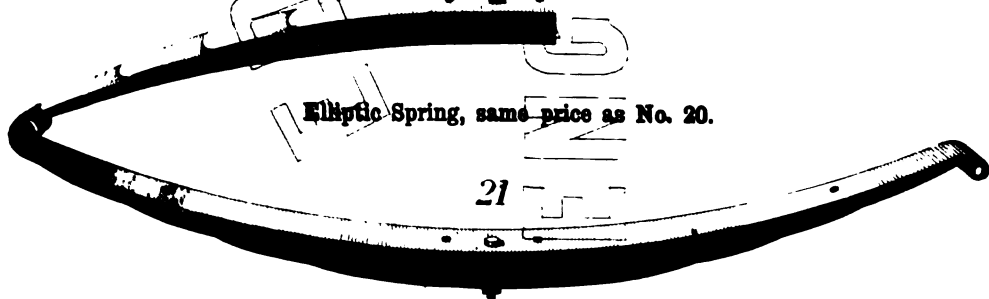
Car Spring, of  $2\frac{1}{2}$  in. Steel, per lb.



Elliptic Spring, with 4 Plates and above, of 2 in. Steel, per lb.

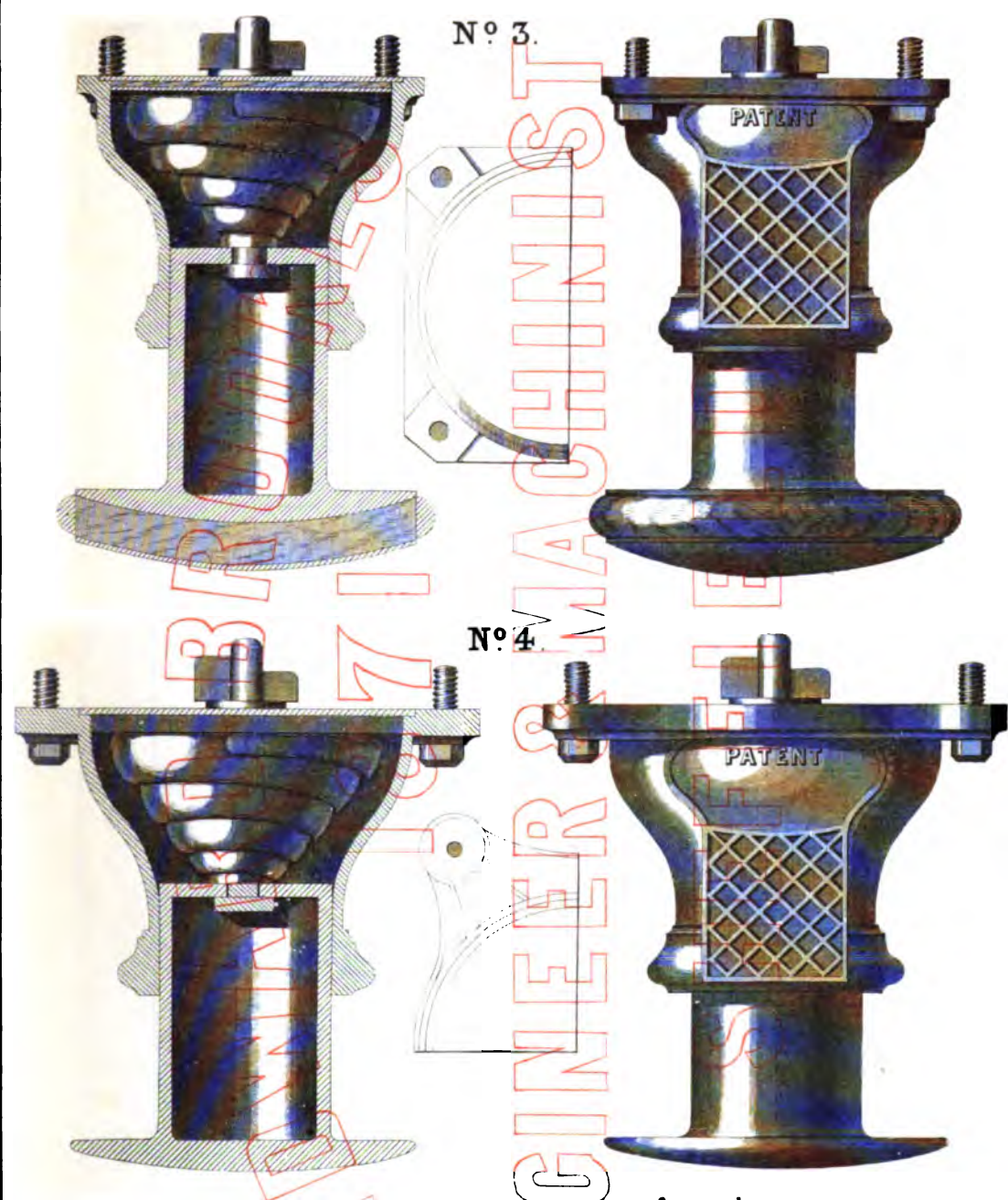


Elliptic Spring, same price as No. 20.



If any of the above Springs are required Bright, per lb. extra.





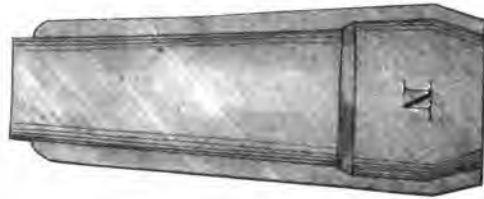
LOCOMOTIVE ENGINE SPRINGS .....		per Cwt.
RAILWAY CARRIAGE ditto .....		"
RAILWAY WAGGON ditto .....		"
LOCOMOTIVE ENGINE BUFFERS .....		per Set.
CARRIAGE BUFFERS .....		"
WAGGON BUFFERS .....		"
CONICAL AND VOLUTE SPRINGS .....		per lb.



## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
		<b>AXLES.</b>
		<b>MAIL PATENT AXLES</b> .....   1½   1½   1½   1½   1½   1½   1½   2   inches.
1116		With Octagon Brass Caps, and Short Bolts, or with Bushes Plugged and Front Plates ..... } 32/6   35/0   42/6   50/0   55/0   65/0   72/6   80/0   per pair (2 ends.)
1116		Ditto, with Long Bolts, Rings, and Octagon Brass Caps, or with Front Plates and Bevil Brass Caps .... } 35/0   37/6   45/0   52/6   57/6   67/6   75/0   82/6   " "
1117		Common Axles ..... 19/0   21/6   24/0   26/6   30/0   35/6   40/6   48/0   " "
1118		Collinge's Axles ..... 80/0   90/0   95/0   105/0   125/0   145/0   160/0   175/0   " (4 ends.)
1119		Do. Safety do., with Concentric Collet Flaps, extra, <b>E B F G</b> , per Axle .. 95/0   100/0   115/0   125/0   155/0   175/0   185/0   195/0   " "
		Do., do., <b>O D E</b> , per Axle ..... 6/3   6/3   6/3   6/3   7/6   7/6   7/6   ..
		Cranks, 1, 2, 3, 4, 5, 6, extra per Axle .. 9/0   9/0   9/0   9/0   10/6   10/6   10/6   ..
		.....   1½   2   2½   2½   2½   3   inch.
1120		Drabble's Arms .....   55/0   60/0   65/0   70/0   75/0   85/0   per pair.
1121		Common Arms, per cwt. 38/0 and upwards.
1122		Australian Dray Axles, per cwt. 38/0 and upwards.
1123		Cape Dray Axles, per cwt. 41/0 and upwards.
		<b>CART SPRINGS.</b>
		.....   5   6   7   8   9   10   Plates.
1124		Cart Springs, Filed, per lb. ....
1126		Ditto, Black, per lb. ....
		For Back Bands, Traces, Shoulder Chains, &c., see page 11.
		For Engravings of Axles, see next page.

1123 Cape Dray Axle with

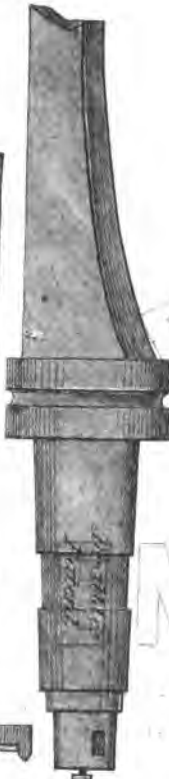


Drabble Axle Complete

1120



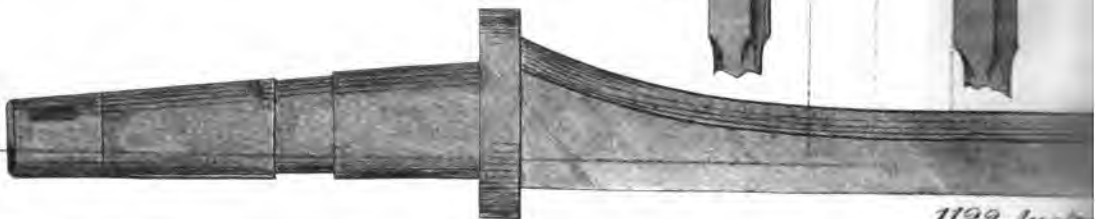
1121 Common Carriage



Lynce Pin Box & Collars  
belonging to



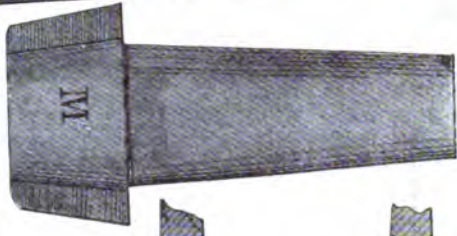
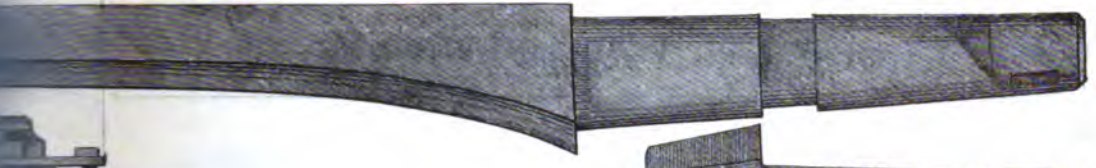
Australian Dray Axle



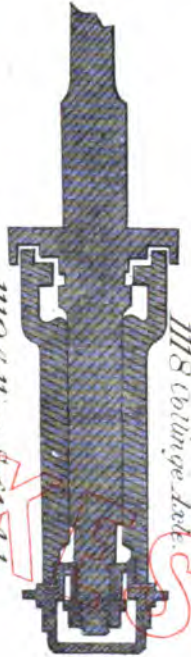
1122 Austr



N Boxes and L Collar



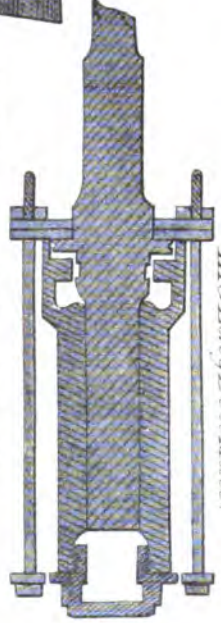
M9 Collage Style Hole with Concentric Collar



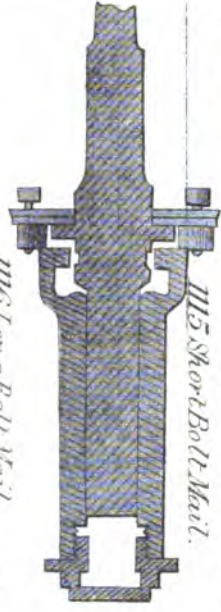
M8 Collage Hole



M7 Common with Wrought Iron Boxes also Cast



M6 Long Bolt Nail

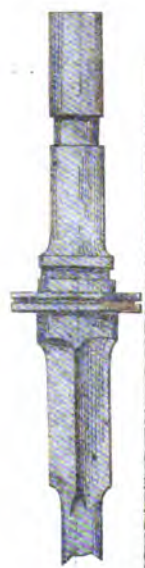
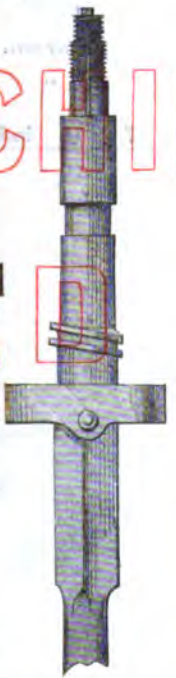


M5 Short Bolt Nail

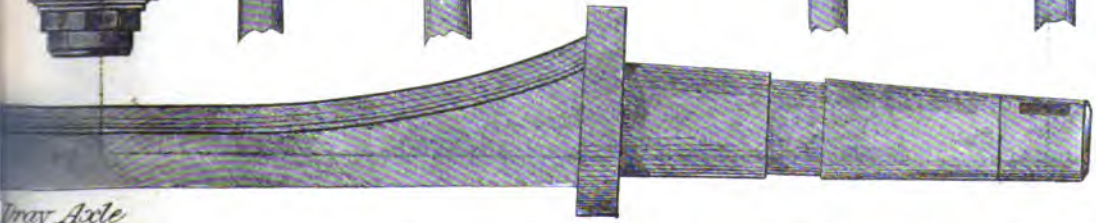


ROCKS

MACHINIST



Tray Axle



## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## ANVILS.

Common .....	3 qrs. to 2 cwt.	2 cwt. to 4 cwt.	4 cwt. and above.
			per cwt.

Warranted .....	3 qrs. to 2 cwt.	2 cwt. to 4 cwt.	4 cwt. and above.
	34/0	36/0	38/0 per cwt.

With 2 Beaks, per cwt. extra.

Extra Holes or Side Beak charged extra.

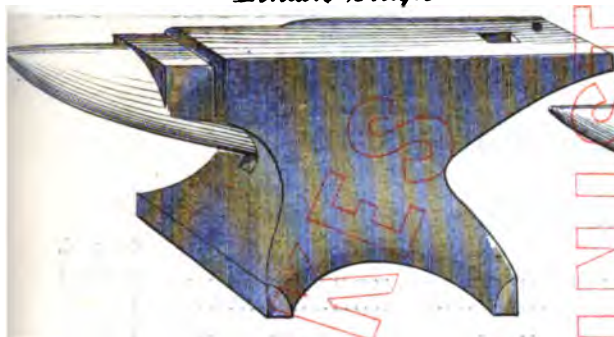
Metal Swage Blocks and Stands..... per cwt.

Common Tug Irons ..... "

	12	13	14	15	16	17	18	inch long.
Water Tug Irons, with Pipe complete ..								

Blast Valves, with Tank and Tug Iron..... each.

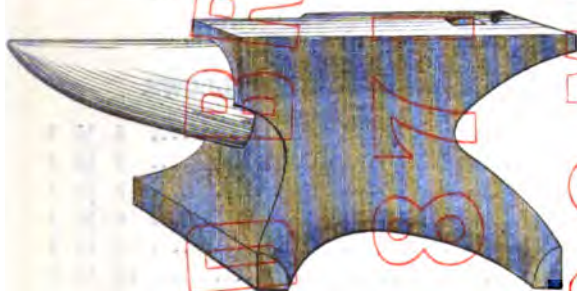
*Smiths Anvil  
London Shape*



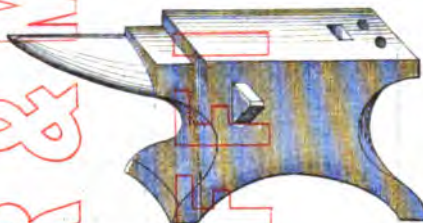
*Double Piked Anvil.*



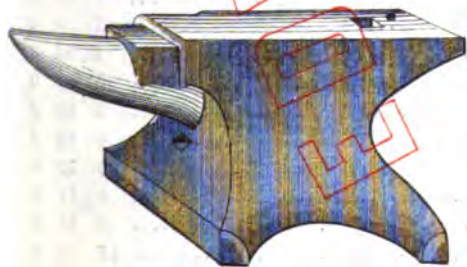
*Farriers Anvil.*



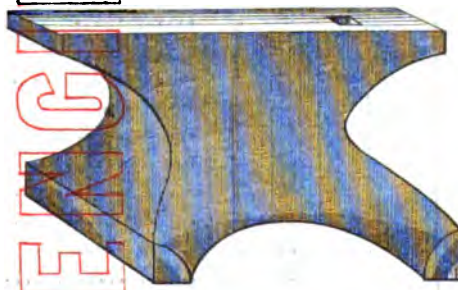
*Coachsmiths Anvil.*



*Blacksmiths Anvil.*



*Double Arched Anvil.*





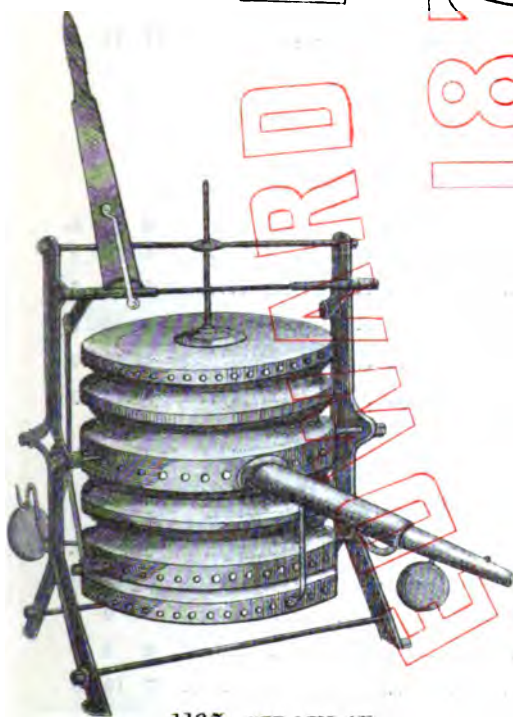
## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.																																																									
		<b>BELLOWS.</b>																																																								
1126		<b>IMPROVED CIRCULAR BELLOWS.</b>																																																								
		<table><tr><th></th><th>£</th><th>s.</th><th>d.</th></tr><tr><td>16 Inches .....</td><td>3</td><td>14</td><td>0</td></tr><tr><td>18 " .....</td><td>4</td><td>0</td><td>0</td></tr><tr><td>20 " .....</td><td>4</td><td>10</td><td>0</td></tr><tr><td>22 " .....</td><td>5</td><td>5</td><td>0</td></tr><tr><td>24 " .....</td><td>6</td><td>0</td><td>0</td></tr><tr><td>26 " .....</td><td>7</td><td>7</td><td>0</td></tr><tr><td>28 " .....</td><td>8</td><td>8</td><td>0</td></tr><tr><td>30 " .....</td><td>10</td><td>0</td><td>0</td></tr><tr><td>32 " .....</td><td>11</td><td>16</td><td>0</td></tr><tr><td>34 " .....</td><td>13</td><td>16</td><td>0</td></tr><tr><td>36 " .....</td><td>15</td><td>16</td><td>0</td></tr></table>		£	s.	d.	16 Inches .....	3	14	0	18 " .....	4	0	0	20 " .....	4	10	0	22 " .....	5	5	0	24 " .....	6	0	0	26 " .....	7	7	0	28 " .....	8	8	0	30 " .....	10	0	0	32 " .....	11	16	0	34 " .....	13	16	0	36 " .....	15	16	0								
	£	s.	d.																																																							
16 Inches .....	3	14	0																																																							
18 " .....	4	0	0																																																							
20 " .....	4	10	0																																																							
22 " .....	5	5	0																																																							
24 " .....	6	0	0																																																							
26 " .....	7	7	0																																																							
28 " .....	8	8	0																																																							
30 " .....	10	0	0																																																							
32 " .....	11	16	0																																																							
34 " .....	13	16	0																																																							
36 " .....	15	16	0																																																							
1127		<b>CIRCULAR PATENT DOUBLE BLAST BELLOWS.</b>																																																								
		<table><tr><td>18 Inches .....</td><td>5</td><td>15</td><td>0</td></tr><tr><td>20 " .....</td><td>6</td><td>12</td><td>0</td></tr><tr><td>22 " .....</td><td>7</td><td>14</td><td>0</td></tr><tr><td>24 " .....</td><td>8</td><td>16</td><td>0</td></tr><tr><td>26 " .....</td><td>9</td><td>18</td><td>0</td></tr><tr><td>28 " .....</td><td>11</td><td>10</td><td>0</td></tr><tr><td>30 " .....</td><td>13</td><td>8</td><td>0</td></tr><tr><td>32 " .....</td><td>15</td><td>0</td><td>0</td></tr><tr><td>34 " .....</td><td>17</td><td>10</td><td>0</td></tr><tr><td>36 " .....</td><td>20</td><td>0</td><td>0</td></tr></table>	18 Inches .....	5	15	0	20 " .....	6	12	0	22 " .....	7	14	0	24 " .....	8	16	0	26 " .....	9	18	0	28 " .....	11	10	0	30 " .....	13	8	0	32 " .....	15	0	0	34 " .....	17	10	0	36 " .....	20	0	0																
18 Inches .....	5	15	0																																																							
20 " .....	6	12	0																																																							
22 " .....	7	14	0																																																							
24 " .....	8	16	0																																																							
26 " .....	9	18	0																																																							
28 " .....	11	10	0																																																							
30 " .....	13	8	0																																																							
32 " .....	15	0	0																																																							
34 " .....	17	10	0																																																							
36 " .....	20	0	0																																																							
1128		<b>LONG SHAPED BELLOWS.</b>																																																								
		<table><tr><td>16 Inches .....</td><td>1</td><td>8</td><td>0</td></tr><tr><td>18 " .....</td><td>1</td><td>12</td><td>0</td></tr><tr><td>20 " .....</td><td>1</td><td>18</td><td>0</td></tr><tr><td>22 " .....</td><td>2</td><td>6</td><td>0</td></tr><tr><td>24 " .....</td><td>2</td><td>14</td><td>0</td></tr><tr><td>26 " .....</td><td>3</td><td>5</td><td>0</td></tr><tr><td>28 " .....</td><td>3</td><td>16</td><td>0</td></tr><tr><td>30 " .....</td><td>4</td><td>12</td><td>0</td></tr><tr><td>32 " .....</td><td>5</td><td>10</td><td>0</td></tr><tr><td>34 " .....</td><td>6</td><td>17</td><td>0</td></tr><tr><td>36 " .....</td><td>8</td><td>16</td><td>0</td></tr><tr><td>38 " .....</td><td>11</td><td>0</td><td>0</td></tr><tr><td>40 " .....</td><td>13</td><td>16</td><td>0</td></tr><tr><td>42 " .....</td><td>16</td><td>10</td><td>0</td></tr></table>	16 Inches .....	1	8	0	18 " .....	1	12	0	20 " .....	1	18	0	22 " .....	2	6	0	24 " .....	2	14	0	26 " .....	3	5	0	28 " .....	3	16	0	30 " .....	4	12	0	32 " .....	5	10	0	34 " .....	6	17	0	36 " .....	8	16	0	38 " .....	11	0	0	40 " .....	13	16	0	42 " .....	16	10	0
16 Inches .....	1	8	0																																																							
18 " .....	1	12	0																																																							
20 " .....	1	18	0																																																							
22 " .....	2	6	0																																																							
24 " .....	2	14	0																																																							
26 " .....	3	5	0																																																							
28 " .....	3	16	0																																																							
30 " .....	4	12	0																																																							
32 " .....	5	10	0																																																							
34 " .....	6	17	0																																																							
36 " .....	8	16	0																																																							
38 " .....	11	0	0																																																							
40 " .....	13	16	0																																																							
42 " .....	16	10	0																																																							

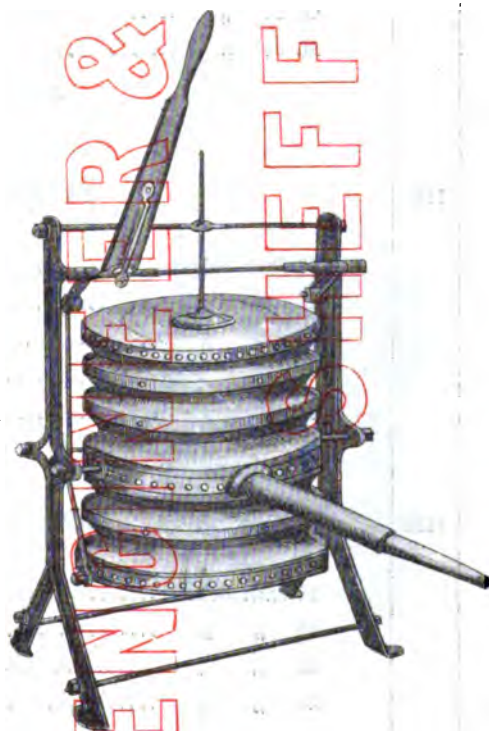




1128, LONG SHAPE BELLOWS.



1127 CIRCULAR  
PATENT DOUBLE BLAST BELLOWS.



1126, IMPROVED CIRCULAR BELLOWS.

## THE ILLUSTRATED SHEFFIELD LIST.

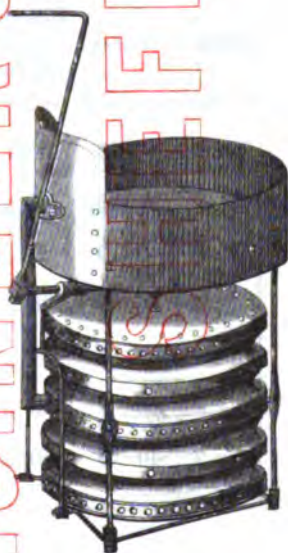
Des- cript.	No.																									
	1129	<p style="text-align: center;"><b>PATENT PORTABLE FORGE.</b></p> <table><thead><tr><th></th><th>£</th><th>s.</th><th>d.</th></tr></thead><tbody><tr><td>A. 18 Inch Bellows.....</td><td>6</td><td>5</td><td>0</td></tr><tr><td>B. 20   "   "   .....</td><td>6</td><td>18</td><td>0</td></tr><tr><td>C. 22   "   "   .....</td><td>7</td><td>14</td><td>0</td></tr><tr><td>D. 24   "   "   .....</td><td>8</td><td>16</td><td>0</td></tr></tbody></table> <p style="text-align: center;">Mounted on Wheels, 7/6 extra.</p>		£	s.	d.	A. 18 Inch Bellows.....	6	5	0	B. 20   "   "   .....	6	18	0	C. 22   "   "   .....	7	14	0	D. 24   "   "   .....	8	16	0				
	£	s.	d.																							
A. 18 Inch Bellows.....	6	5	0																							
B. 20   "   "   .....	6	18	0																							
C. 22   "   "   .....	7	14	0																							
D. 24   "   "   .....	8	16	0																							
	1130	<p style="text-align: center;"><b>PATENT PORTABLE FORGE, with DOUBLE BLAST BELLOWS.</b></p> <table><thead><tr><th></th><th>£</th><th>s.</th><th>d.</th></tr></thead><tbody><tr><td>E. 18 Inches .....</td><td>8</td><td>0</td><td>0</td></tr><tr><td>F. 20   "   .....</td><td>9</td><td>0</td><td>0</td></tr><tr><td>G. 22   "   .....</td><td>10</td><td>14</td><td>0</td></tr><tr><td>H. 24   "   .....</td><td>11</td><td>12</td><td>0</td></tr></tbody></table> <p style="text-align: center;">Mounted on Wheels, 10/0 extra.</p>		£	s.	d.	E. 18 Inches .....	8	0	0	F. 20   "   .....	9	0	0	G. 22   "   .....	10	14	0	H. 24   "   .....	11	12	0				
	£	s.	d.																							
E. 18 Inches .....	8	0	0																							
F. 20   "   .....	9	0	0																							
G. 22   "   .....	10	14	0																							
H. 24   "   .....	11	12	0																							
	1131	<p style="text-align: center;"><b>PATENT CIRCULAR FORGE.</b></p> <table><thead><tr><th></th><th>£</th><th>s.</th><th>d.</th></tr></thead><tbody><tr><td>16 Inch Bellows .....</td><td>4</td><td>12</td><td>0</td></tr><tr><td>18   "   "   .....</td><td>5</td><td>0</td><td>0</td></tr><tr><td>20   "   "   .....</td><td>5</td><td>16</td><td>0</td></tr><tr><td>22   "   "   .....</td><td>6</td><td>15</td><td>0</td></tr><tr><td>24   "   "   .....</td><td>7</td><td>18</td><td>0</td></tr></tbody></table>		£	s.	d.	16 Inch Bellows .....	4	12	0	18   "   "   .....	5	0	0	20   "   "   .....	5	16	0	22   "   "   .....	6	15	0	24   "   "   .....	7	18	0
	£	s.	d.																							
16 Inch Bellows .....	4	12	0																							
18   "   "   .....	5	0	0																							
20   "   "   .....	5	16	0																							
22   "   "   .....	6	15	0																							
24   "   "   .....	7	18	0																							
	1132	<p style="text-align: center;"><b>IMPROVED PORTABLE FORGE.</b></p> <table><thead><tr><th></th><th>£</th><th>s.</th><th>d.</th></tr></thead><tbody><tr><td>18 Inch Bellows .....</td><td>4</td><td>10</td><td>0</td></tr><tr><td>20   "   "   .....</td><td>5</td><td>0</td><td>0</td></tr><tr><td>22   "   "   .....</td><td>6</td><td>5</td><td>0</td></tr><tr><td>24   "   "   .....</td><td>7</td><td>10</td><td>0</td></tr></tbody></table> <p style="text-align: center;">Mounted on Wheels, 5/6 extra, Net.</p>		£	s.	d.	18 Inch Bellows .....	4	10	0	20   "   "   .....	5	0	0	22   "   "   .....	6	5	0	24   "   "   .....	7	10	0				
	£	s.	d.																							
18 Inch Bellows .....	4	10	0																							
20   "   "   .....	5	0	0																							
22   "   "   .....	6	5	0																							
24   "   "   .....	7	10	0																							



1129 PATENT PORTABLE FORGE



1132. IMPROVED PORTABLE FORGE.



1131 PATENT CIRCULAR FORGE

## THE ILLUSTRATED SHEFFIELD LIST.

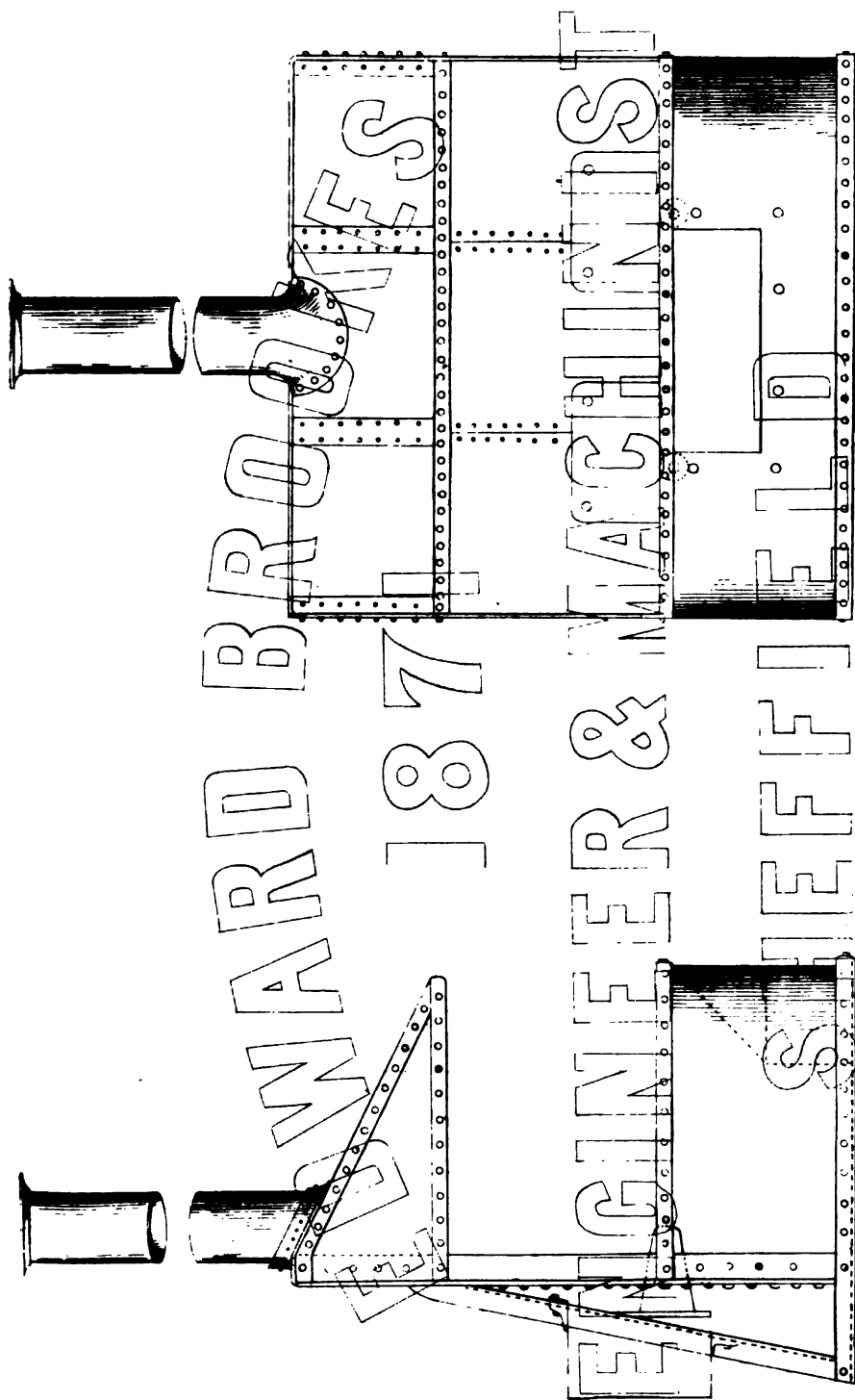
## IMPROVED SILENT FANS.



These IMPROVED SILENT FANS are guaranteed to work with less power than any other Fan hitherto brought out. They are manufactured with special regard to strong material (being fitted with steel spindles), good workmanship, long bearings, and efficient lubrication, and are offered to the public at a *much less cost than any other Fan*.

SIZES.	PRICES.	Diameter of Revolving Fan.	Diameter of Pulleys.	No. of Fires Blown.	Tons Malted per Hour.	Breadth of Straps.	Diameter of Discharge.	COUNTERSHAFTS FOR FANS, &c.	
								SIZES.	PRICES.
No. 1	£3 15	10in.	3in.	4	$\frac{1}{2}$	1 $\frac{1}{2}$ in.	5in.	No. 1	£2 0
„ 2	5 10	15 „	4 „	8	1 $\frac{1}{4}$	2 $\frac{1}{4}$ „	8 „	„ 2	2 15
„ 3	9 10	20 „	6 „	16	2 $\frac{1}{2}$	3 „	10 „	„ 3	3 10
„ 4	15 0	30 „	9 „	32	5	3 $\frac{1}{2}$ „	14 „	„ 4	5 10
„ 5	21 10	36 „	10 „	52	7 $\frac{1}{2}$	4 „	16 „	„ 5	6 10
„ 6	28 0	40 „	12 „	72	10	4 „	18 „	„ 6	8 0
„ 7	40 0	50 „	15 „	150	20	5 „	22 „	„ 7	10 0





Smith's Hearth

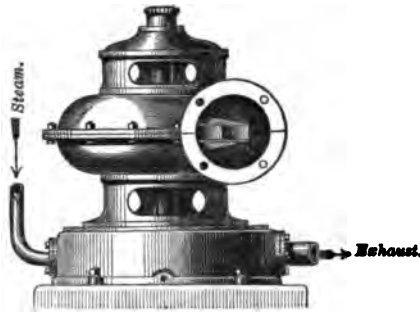
Double £

Single £

do

## THE ILLUSTRATED SHEFFIELD LIST.

## DIRECT-ACTING STEAM FANS.

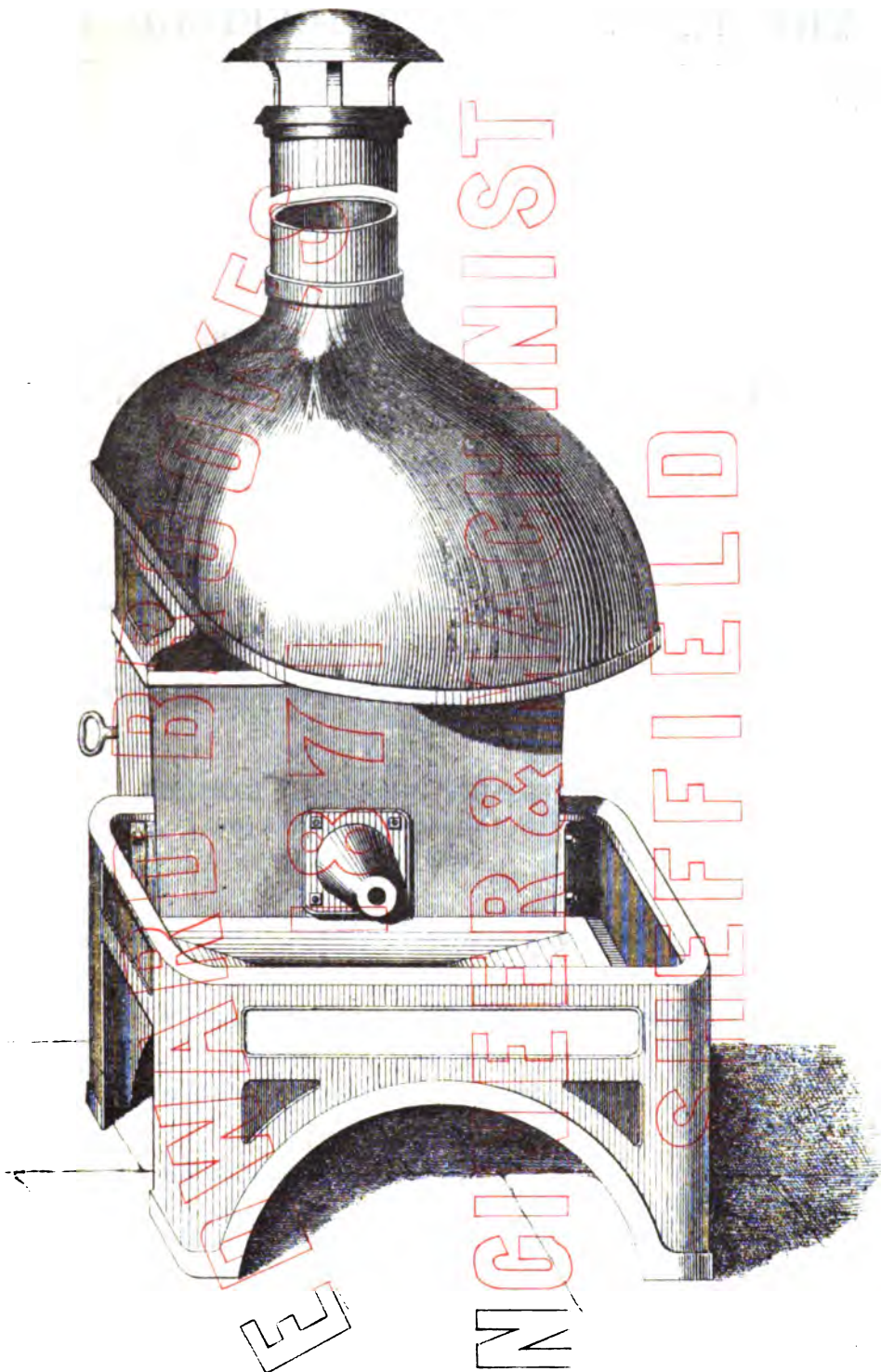


The above Engraving shows an Improved Silent Fan and a Steam Turbine, combined on one spindle, forming an exceedingly compact Machine, and delivered ready for work, merely requiring connection with steam and air pipes.

These Improved Machines, requiring no extra engine and gearing, and no strapping to drive them, are of immense advantage for supplying Blast to Smithies and Foundries, or Repairing Shops on Steamboats and Ship-yards, for Boilermakers, Bridge Builders, and Contractors. For Engineering Works they are of great value for working overtime, as they are worked quite independent of any other engine. They are made of the very best materials, and provided with efficient means for lubrication. All spindles are of steel, and bearings of best hard gun metal, of such dimensions as to make wear and tear almost impossible.

All Machines are tried at the works before being sent out, at considerably higher speed than intended for regular work.

SIZES.	PRICES.	Fires Blown.	Tons Melted per Hour.	Cubic feet of air per minute.
No. 1	£14	4	$\frac{1}{2}$	300
„ 2	24	8	$1\frac{1}{4}$	600
„ 3	34	16	$2\frac{1}{2}$	1250



**CAST-IRON SMITHS' HEARTH,**

Complete as per sketch, including Blast-valve and Handle for working same.—Price,  
Size of Hearth, 4ft. by 4ft.

Wrought-Iron Chimneys, with Cast-Iron Weather Caps.—Cast-Iron Fittings for Brick-built Hearths, &c  
Larger or Smaller Hearths and Double Hearths made to order.

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## ENGINEERS' AND MECHANICS' HAMMERS.

8	10	12	14	16	18	20	22	or. each.
11/0	12/6	14/0	16/0	18/0	20/0	22/0	24/0	per doz.

DITTO, 1½ lb. each and upwards, 1/2 per lb., Iron and Steel Faced.  
 Numbers 49 | 50 | 51 | 52 | 53 | 54 | 55 | }

Solid Cast Steel Ditto, Warranted, 1/6 per lb.  
 Numbers 49A | 50A | 51A | 52A | 53A | 54A | 55A | }

Solid Cast Steel Hammers, Common Finished, 1/4 per lb. Not Filed, but good forgings, 1/ per lb.

SOLID CAST STEEL BOILER MAKERS' HAMMERS.  
 Numbers 56A | 57A | 58A | 1/6 per lb. }

59

## FLOGGING AND SLEDGE HAMMERS.

7 lbs. each and upwards, 6d. per lb.

Solid Cast Steel, 1/0 per lb.

60

## CONTRACTORS' STONE HAMMERS. Same Price as Flogging and Sledge Hammers.

Boiler Scaling Hammers, 24/0 per dozen; if Handled, 30/0 per dozen.

Hammers of every Description made to order.

## CAST STEEL CHIPPING CHISELS.

Assorted Patterns:—Flat, Half-Round, Cross-Cut, and Diamond Point, 1/0 per lb.

Mill Chisels and Mill Picks, 1/2 per lb.

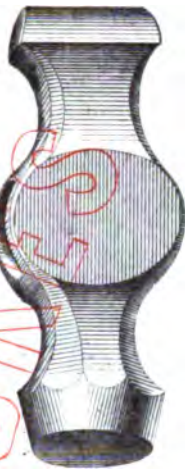


*Engineers & Mechanics Hammers.*

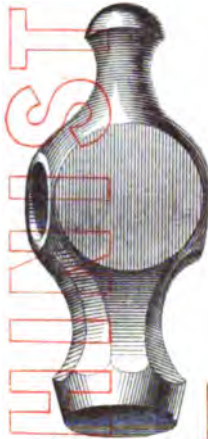
49.A.



50.A.



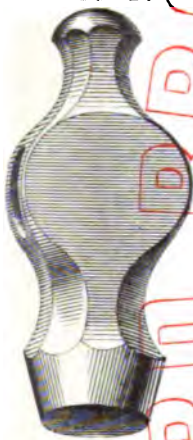
51.A.



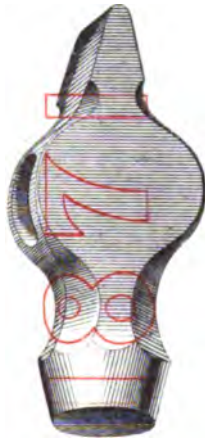
52.A.



53.A.



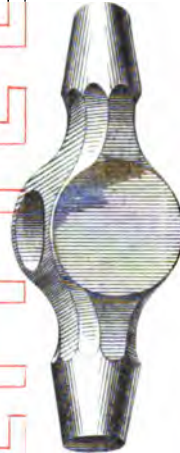
54.A.



55.A.

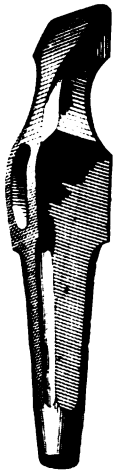


56.A.



*Boiler Makers Hammer.*

57.A.



*Boiler Makers Hammers.*

58.A.



59.



*Sledge Hammer.*

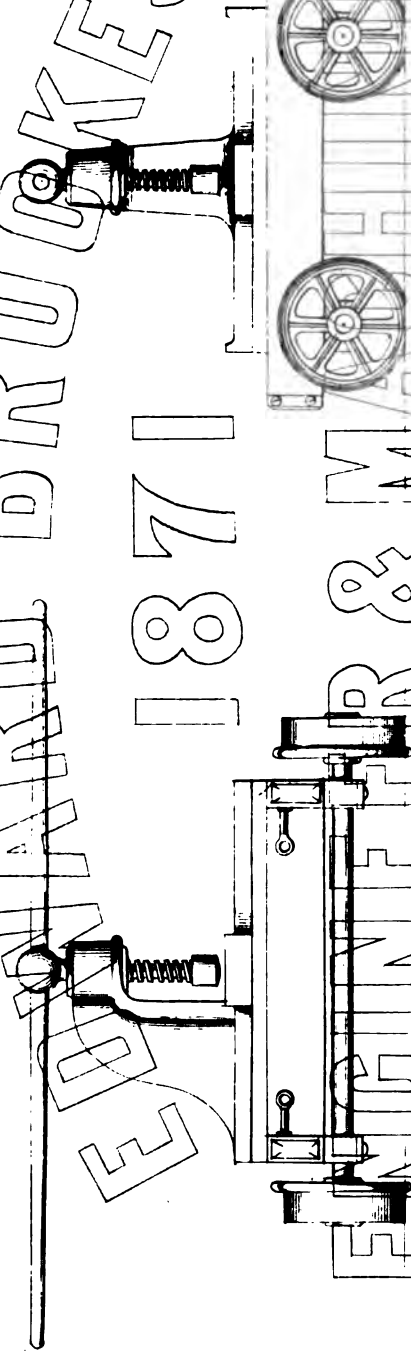
60.



*Contractors Stone Hammer.*



EDWARD BROOKES  
1871  
ENGINEER & MACHINIST



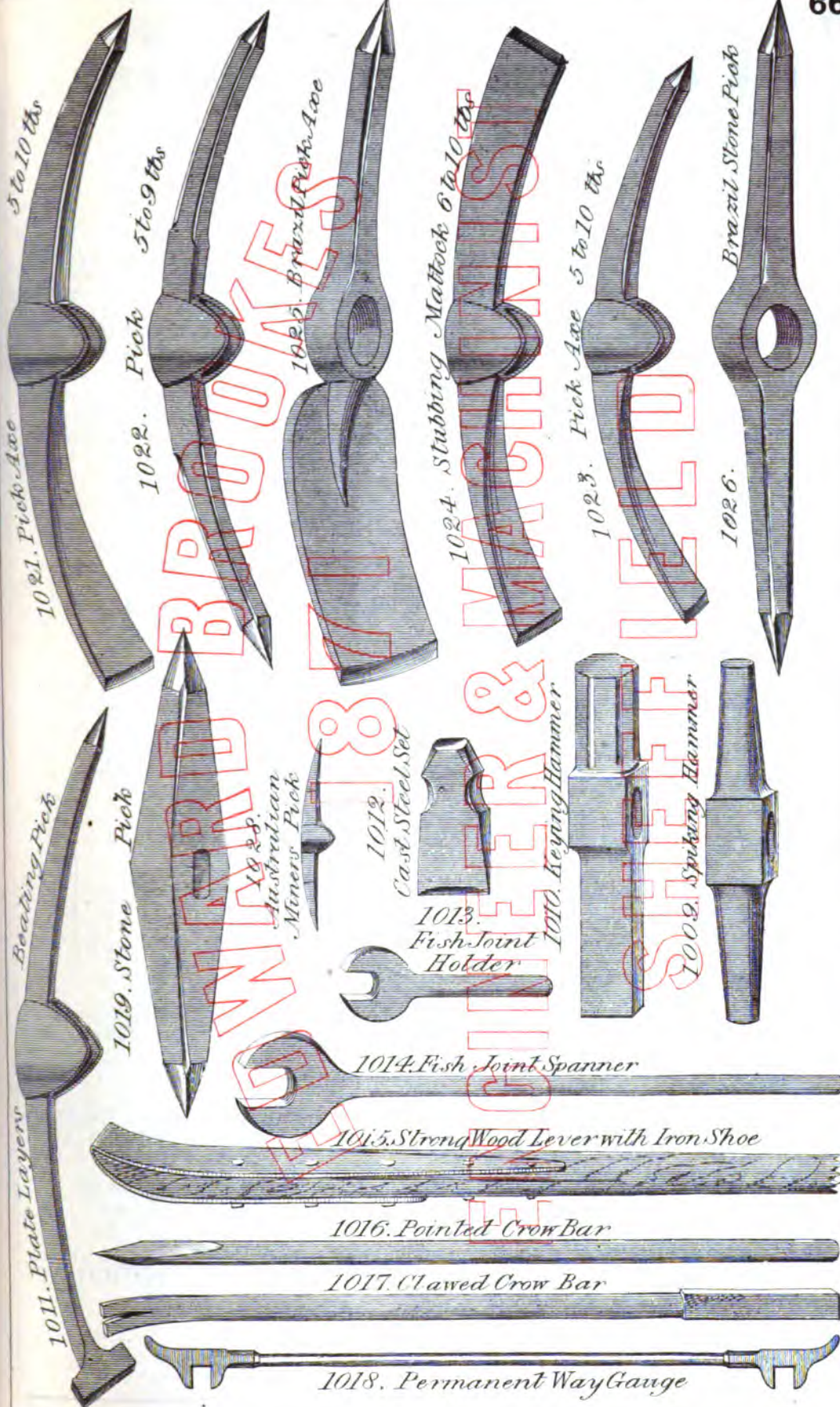
No. 1099G. RAIL SETTING PRESS, 4ft. 6in. GAUGE. & EACH.

SHEFFIELD

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
<b>RAILWAY PLATELAYERS' TOOLS.</b>		
	1009	Spiking Hammers.....7d. per lb.; if Solid Cast Steel, 1/4 per lb.
	1010	Keying Hammers.....7d. „ ditto 1/4 „
	1011	Platelayers' Beating Pick ..... 46/0 per cwt.
	1012	Cast Steel Sets ..... 1/0 per lb.
	1012A	Cast Steel Punches ..... 1/0 „
	1013	Fish Joint Holder..... 6d. „
	1014	Fish Joint Spanner ..... 6d. „
	1015	Strong Wood Lever, with Iron Shoe, and 8, 10, 12, and 15 feet Shaft ..... each.
	1016	Pointed Crow Bar, both Ends Steeled ..... 40/0 per cwt.
	1017	Clawed ditto, ditto ..... 42/0 „
	1018	Permanent Way Gauge ..... 5d. per lb.
	1018A	Ditto ditto, Turned Ends ..... 6d. „
	1019	Stone Pick ..... 44/0 per cwt.
	1020	Ditto, Solid Cast Steel ..... 1/4 per lb.
	1021	Pick Axe, 5 to 10 lbs. .... 42/0 per cwt.
	1022	Pick, 5 to 9 lbs..... 42/0 „
	1023	Pick Axe, 5 to 10 lbs. .... 42/0 „
	1024	Stubbing Mattock..... 44/0 „
	1025	Brazil Pick Axe..... 56/0 „
	1026	Brazil Stone Pick ..... 42/0 „
	1027	Ditto ditto, Solid Cast Steel..... 1/4 per lb.
	1027A	Screw Couplings ..... 7d. „
	1028	Australian Miners' Pick.....   2½ lb.   3 lb.   3½ lb.   each.
		26/6   29/0   33/6   dozen.
	1029	Ditto ditto, Electro Boracic Steel, Blued ....   2½ lb.   3 lb.   3½ lb.   each.
		28/6   31/0   35/6   dozen.
	1029A	Wood Mauls, Iron Hooped ..... 8/6 each.
	1029B	Pin Cutter ..... 6d. per lb.
	1029C	Cast Steel Punch ..... 1/0 „
	1029D	Ditto Sate ..... 1/0 „
	1029E	Clip Jack ..... 100/0 each.
	1029F	Fork Bar..... per pair.
		PATENT SOLID STEEL PICKS, with Interchangeable Shafts and Blades.
	1029H	Miners' and Stone Picks—Shafts, 1/9 each; Blades, No. 1, 1/9; No. 2, 2/0 each.
		Ditto ditto Set of 5 Blades and 1 Shaft, No. 1, 10/6; No. 2, 11/6.
	1029I	Miners' Picks, Wedge Pattern—Shafts, 2/0 each; Blades, No. 1, 1/6; No. 2, 1/9 each.
		Ditto ditto, Set of 5 Blades and 1 Shaft, No. 1, 9/0; No. 2, 10/0.
	1029J	Navvy Picks, Solid Cast Steel, 7d. per lb.; Shafts, 2/0 each.
	1029K	Platelayers' Beating Pick, Solid Cast Steel, 9d. per lb.; Shafts, 2/0 each.





## LANCASHIRE TOOLS.

			3½	4	4½	5	5½	6	7	8	9	10	11	12	inch.
61	Spring Dividers,	Black .....	32/6	32/6	32/6	32/6	35/0	37/0	45/0	52/0	..	..	..	..	dozen.
	Ditto,	Bright.....	37/0	37/0	37/0	37/0	41/0	45/0	52/0	60/0	..	..	..	..	"
62	Wing Compasses,	Black .....	..	..	..	21/6	..	24/0	26/0	30/0	34/0	36/6	44/6	55/0	"
62A	Ditto,	Bright.....	..	..	..	25/6	..	29/0	32/6	36/0	39/6	43/3	53/6	65/0	"
63	Plain Compasses,	Black .....	..	16/0	..	15/0	..	19/0	22/0	25/0	28/0	31/0	..	..	"
	Ditto,	Bright.....	..	20/0	..	20/0	..	24/0	27/0	30/0	33/0	36/0	..	..	"
63A	Rack Compasses,	Black .....	..	..	..	27/0	..	29/0	31/6	35/0	37/6	41/0	48/0	57/6	"
	Ditto,	Bright.....	..	..	..	32/6	..	36/0	39/6	43/3	47/0	50/6	60/6	72/0	"
64	Plain Callipers,	Black .....	..	15/0	..	15/0	..	19/0	25/0	29/0	32/0	35/6	..	..	"
	Ditto,	Bright.....	..	19/0	..	19/0	..	25/0	29/0	35/0	40/0	44/0	..	..	"
65	Spring Callipers,	Black .....	..	..	..	37/0	..	45/0	52/0	60/0	72/0	..	..	..	"
	Ditto,	Bright.....	..	..	..	44/0	..	52/0	59/0	68/0	80/0	..	..	..	"
65A	Wing Callipers,	Black .....	..	..	..	27/0	..	31/0	34/6	37/6	42/6	46/0	..	66/0	"
	Ditto,	Bright.....	..	..	..	31/0	..	36/0	39/6	45/6	51/6	55/0	..	79/6	"
66	Rack Wing Callipers,	Black .....	..	..	..	35/0	..	38/6	42/0	46/0	52/0	56/0	66/0	77/0	"
	Ditto,	Bright.....	..	..	..	40/0	..	44/6	48/0	55/0	61/0	65/0	79/0	92/0	"
67	Steel Egg Callipers,	" .....	..	..	..	20/0	..	23/6	28/0	35/0	40/0	45/0	..	..	"
<hr/>															
			3	3½	4	4½	5	5½	6	6½	7	7½	8	inch.	
68	Flat Nose Pliers,	Black .....	13/0	13/6	14/0	14/6	15/0	17/6	22/0	28/6	33/6	41/0	50/0	dozen.	
	Ditto,	Bright .....	17/0	17/6	18/0	18/6	19/0	21/6	26/0	32/6	37/6	45/0	54/0	"	
69	Round Nosed Pliers,	Black .....	13/0	13/6	14/0	14/6	15/0	17/6	22/0	28/6	33/6	41/0	50/0	"	
	Ditto,	Bright .....	17/0	17/6	18/0	18/6	19/0	21/6	26/0	32/6	37/6	45/0	54/0	"	
70	Clock Cutting Nippers,	Black .....	..	..	..	26/0	26/0	28/6	34/6	40/6	46/0	..	..	"	
	Ditto,	Bright .....	..	..	..	31/0	31/0	33/6	39/6	45/6	51/0	..	..	"	
71	Bellhangers' Pliers,	Black .....	..	..	..	..	24/6	24/6	27/0	34/6	44/0	..	..	"	
	Ditto,	Bright .....	..	..	..	..	29/6	29/6	32/0	39/6	49/0	..	..	"	
71A	Side Nippers,	Black .....	..	..	..	..	25/3	27/6	34/6	..	..	..	..	"	
	Ditto,	Bright .....	..	..	..	..	30/0	32/6	38/6	..	..	..	..	"	
71B	Nipper Pliers,	Black .....	..	..	..	..	27/9	30/0	..	43/6	..	..	..	"	
	Ditto,	Bright .....	..	..	..	..	32/6	36/0	..	50/6	..	..	..	"	
72	Railway Ticket Pliers, Black, 27/0 per dozen; ditto Bright, 35/0 per dozen.														
<hr/>															
			3	3½	4	4½	5	5½	6	inches.					
73	Hand Vice, Black .....		28/0	30/0	32/6	37/0	49/0	60/0	75/0	per dozen.					
74	Ditto, with Key, 12/0 per dozen more than No. 73.														
75	Common Hand Vice.....		22/0	22/0	26/0	30/0	35/0	42/0		"					
<hr/>															
			1	1½	1½	1¾	2	2½	2½	2¾	3	3½	3½	lbs. each.	
76	Lancashire Bench Vice		8/0	8/6	9/2	10/0	10/8	11/3	11/8	12/1	12/6	13/0	13/4	each.	
77	Common ditto													"	
<hr/>															
			3½	4	4½	4½	4½	5	lbs. each.						
76	Lancashire Bench Vice .....		13/9	14/6	15/0	15/6	15/10	16/6	each.						
77	Common ditto .....									"					
<hr/>															
			1	1½	2	2½	3	3½	4	lbs. each.					
77A	BECK IRONS .....		23/0	27/0	30/0	36/0	42/0	48/0	54/0	dozen.					





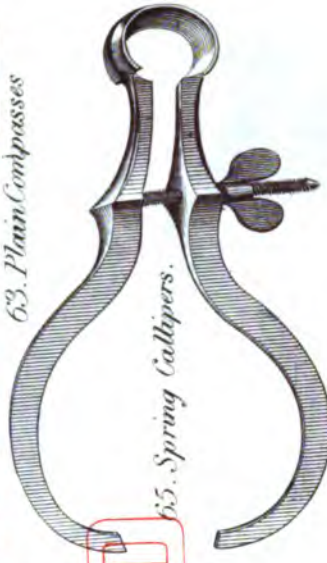
61. Spring Dividers.



62. Wing Compasses.



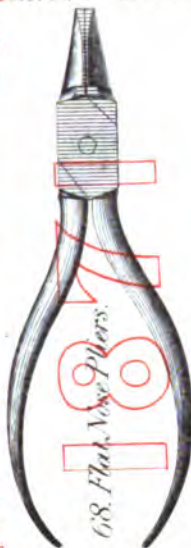
63. Plain Compasses.



65. Spring Callipers.



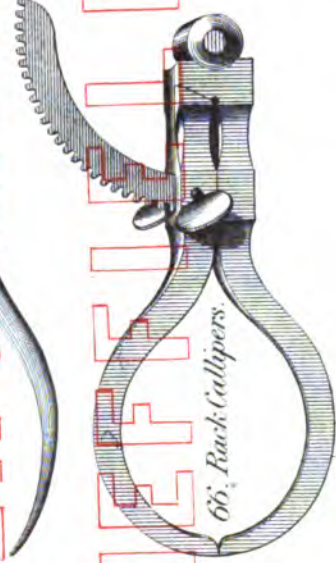
64. Plain Callipers.



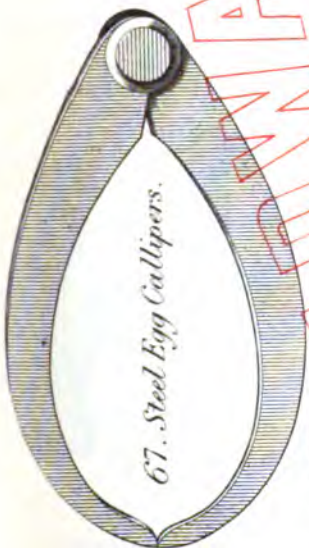
68. Flat Nose Pliers.



69. Round & Vase Pliers.



66. Rack Callipers.



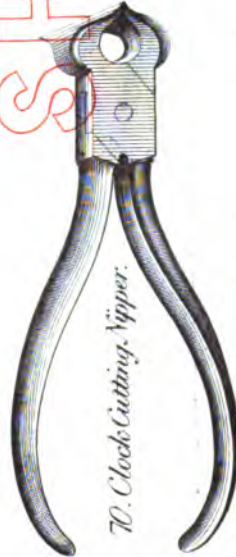
67. Steel Egg Callipers.



79. Railway Ticket Pliers.



71. Bellhangers Pliers.



70. Clock Cutting Nipper.

Lancashire Tools.

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## JOINERS' HAMMER HEADS.

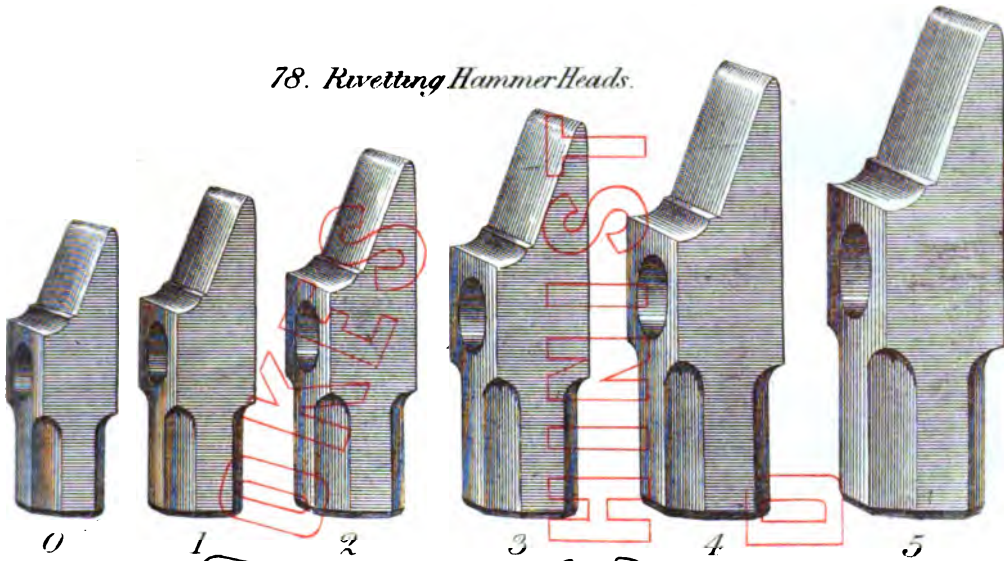
	No.	0	1	2	3	4	5	6	7	8	9	10	11	12
78	Rivetting Hammer Heads ..	4/0	4/6	5/6	6/6	7/6	8/6	9/6	11/0	12/6	14/6	16/6	18/6	21/0 doz.
79	Best Black Exeter Heads ..	5/6	6/6	7/6	8/6	10/6	11/6	13/0	14/6	16/6	18/0	20/0	22/0	24/0 "
80	Ditto ditto, with Claw..	5/6	6/6	7/6	8/6	10/6	11/6	13/0	14/6	16/6	18/0	20/0	22/0	24/0 "
81	Ditto, Warrington Heads..	10/6	10/6	11/6	13/0	14/6	16/0	18/0	20/0	22/0	24/0	26/0	28/0	30/0 "
82	Double-faced Hammer Heads	..	10/0	12/0	15/0	18/0	..	..	..	..	..	..	..	"
83	London Veneering ditto....	..	..	14/0	16/0	18/0	20/0	..	..	..	..	..	..	"
83A	Best Clench Hammer Heads	5/6	6/6	7/6	8/6	10/6	11/6	13/0	14/6	16/6	18/0	20/0	22/0	24/0 "

Any of the above, if Handled with Polished Beech Handles, No. 00 to 6, 2/0;

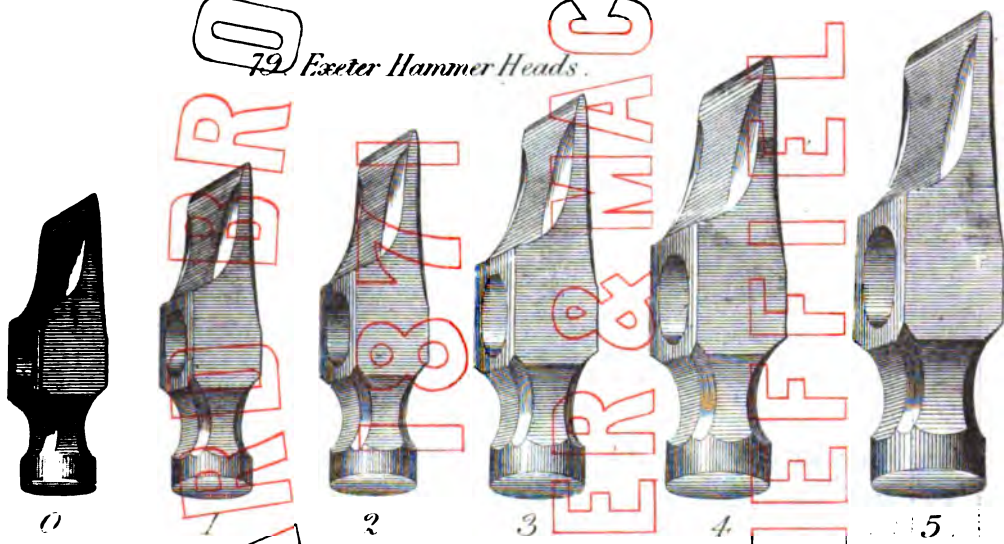
Nos. 7 to 12, 3/0 per dozen extra.



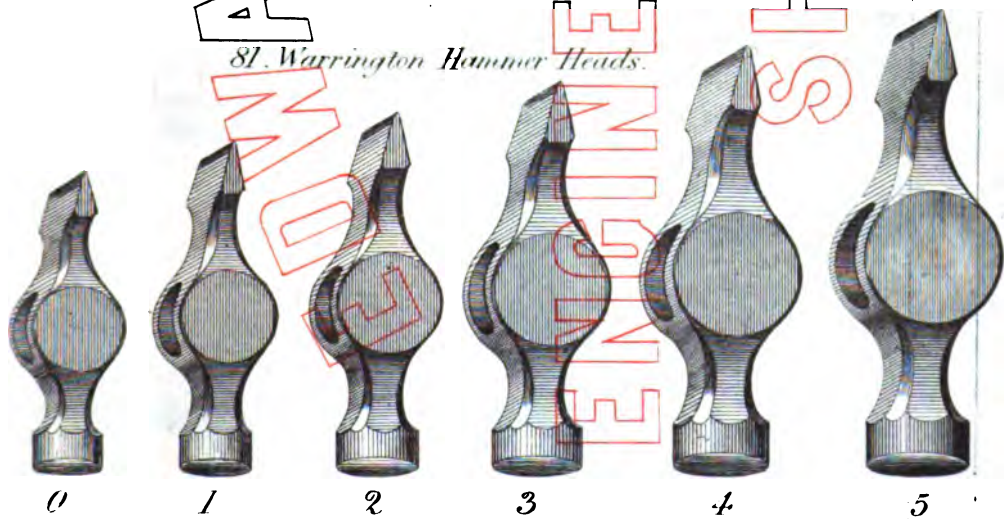
78. Rivetting Hammer Heads.



79. Exeter Hammer Heads.



81. Warrington Hammer Heads.



THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	HAMMERS.															
	No.	00	0	1	2	3	4	5	6	7	8	9	10	11	12		
	84	Bright Kent Hammers..	6/	8/	9/	11/	13/	15/	17/	19/	22/	25/	28/	31/	34/	38/	do.
	84B	Black Kent Hammers ..	..	7/	8/	10/	12/	14/	16/	18/	21/	24/	27/	30/	33/	37/	"
	85	Bright Solid Cheek Kent Hammers.	} ..	9/	10/	12/	14/	16/	18/	20/	23/	26/	30/	34/	38/	42/	"
	86	New Kent Hammers....	..	12/	13/	15/	17/	19/	21/	23/	26/	29/	32/	36/	40/	44/	"
	87	Canterbury do. ....	..	13/	14/	16/	18/	21/	24/	27/	30/	33/	36/	40/	44/	48/	"
	88	Scotch Garden do. ....	..	..	18/	20/	22/	24/	27/	30/	..	..	..	..	..	..	"
	89	Bright do. do. ....	..	10/	12/	14/	16/	18/	20/	22/	..	..	..	..	..	..	"
	90	Glasiers' do. ....	..	..	18/	20/	22/	..	..	..	..	..	..	..	..	..	"
	91	London do. ....	..	..	20/	22/	24/	..	..	..	..	..	..	..	..	..	"
	92	Bright Lathing do. ....	..	..	12/	14/	16/	18/	20/	24/	..	..	..	..	..	..	"
	92B	Black do. do. ....	..	..	11/	13/	15/	17/	19/	23/	..	..	..	..	..	..	"
	93	Brick do. ....	..	..	12/	14/	16/	18/	20/	24/	..	..	..	..	..	..	"
	94	Shoe do. ....	..	..	10/	11/6	13/	15/	17/	19/	..	..	..	..	..	..	"
	95	Cramping do. ....	..	..	10/	11/6	13/	15/	17/	19/	..	..	..	..	..	..	"

84. Bright Kent Hammer.

85. Solid Check Kent Hammer.

86. New Kent Hammer.

87. Canterbury Hammer.

88. Scotch Garden Hammer.

*Chequer'd Face.*

89. Bright Garden Hammer.

*Chequer'd Face.*

90. Glazier's Hammer.

91. London Glazier's Hammer.

92. Bright Lath Hammer.

93. Brick Hammer.

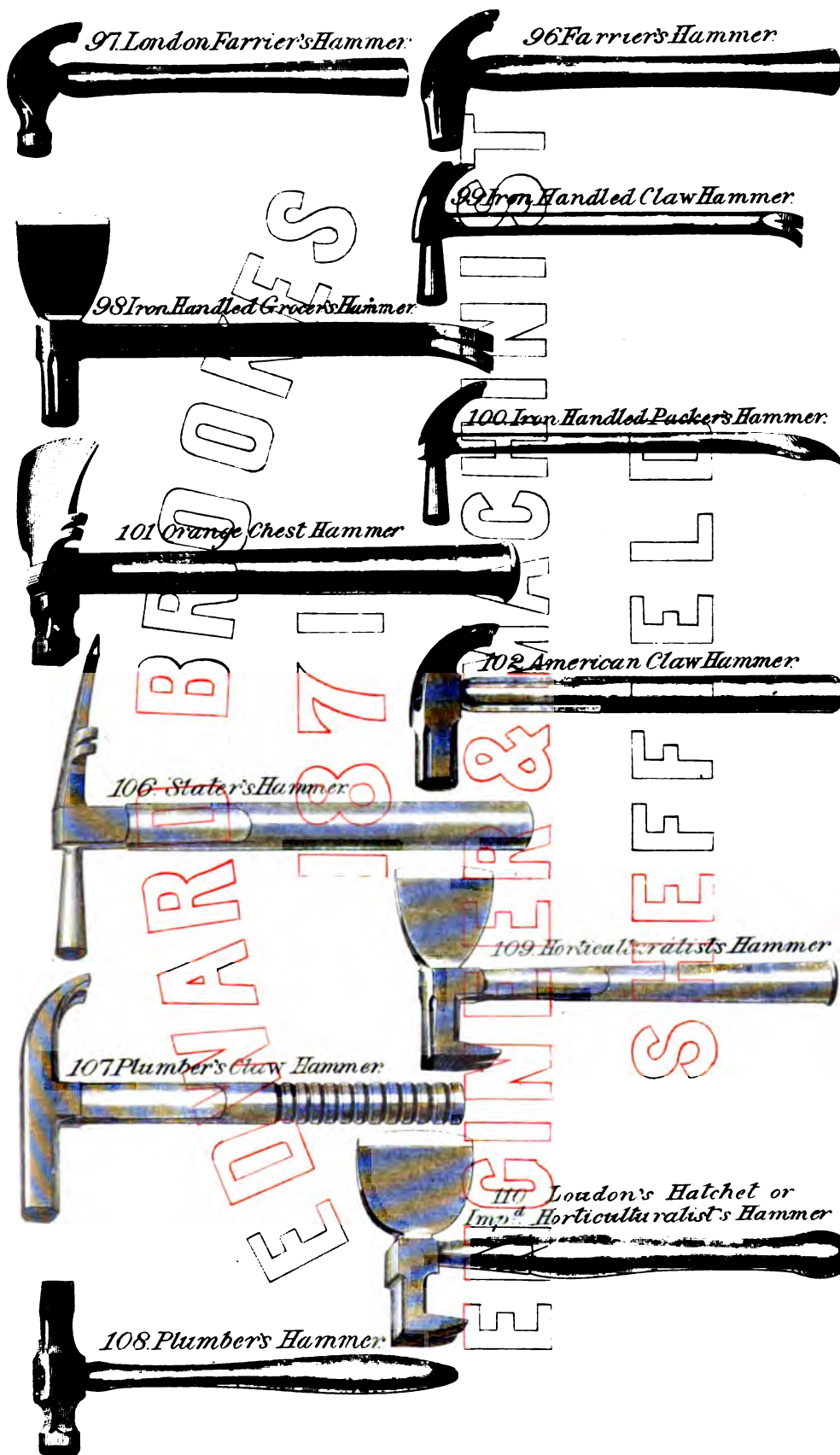
94. Shoe Hammer.

95. Cramping Hammer.

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.																																																																																																													
		<b>HAMMERS.</b>																																																																																																												
		<table><tr><th>No.</th><th>1</th><th>2</th><th>3</th><th>4</th><th></th></tr><tr><td>96</td><td>10/</td><td>12/</td><td>14/</td><td>..</td><td>per doz</td></tr><tr><td>97</td><td>17/</td><td>19/</td><td>21/</td><td>..</td><td>"</td></tr><tr><td>98</td><td>25/</td><td>30/</td><td>35/</td><td>40/</td><td>"</td></tr><tr><td>99</td><td>18/</td><td>21/</td><td>24/</td><td>27/</td><td>"</td></tr><tr><td>100</td><td>18/</td><td>21/</td><td>24/</td><td>27/</td><td>"</td></tr><tr><td>101</td><td>27/</td><td>30/</td><td>..</td><td>..</td><td>"</td></tr><tr><td>102</td><td>32/</td><td>34/</td><td>36/</td><td>..</td><td>"</td></tr><tr><td>103</td><td>22/</td><td>24/</td><td>26/</td><td>..</td><td>"</td></tr><tr><td>104</td><td>26/</td><td>28/</td><td>30/</td><td>..</td><td>"</td></tr><tr><td>105</td><td>36/</td><td>38/</td><td>40/</td><td>..</td><td>"</td></tr><tr><td>106</td><td>29/</td><td>..</td><td>..</td><td>..</td><td>"</td></tr><tr><td></td><td>26/</td><td>..</td><td>..</td><td>..</td><td>"</td></tr><tr><td></td><td>42/</td><td>45/</td><td>..</td><td>..</td><td>"</td></tr><tr><td>107</td><td>27/</td><td>30/</td><td>33/</td><td>..</td><td>"</td></tr><tr><td>108</td><td>15/6</td><td>17/6</td><td>20/</td><td>..</td><td>"</td></tr><tr><td>109</td><td>27/</td><td>30/</td><td>..</td><td>..</td><td>"</td></tr><tr><td>110</td><td>60/</td><td>..</td><td>..</td><td>..</td><td>"</td></tr></table>	No.	1	2	3	4		96	10/	12/	14/	..	per doz	97	17/	19/	21/	..	"	98	25/	30/	35/	40/	"	99	18/	21/	24/	27/	"	100	18/	21/	24/	27/	"	101	27/	30/	..	..	"	102	32/	34/	36/	..	"	103	22/	24/	26/	..	"	104	26/	28/	30/	..	"	105	36/	38/	40/	..	"	106	29/	..	..	..	"		26/	..	..	..	"		42/	45/	..	..	"	107	27/	30/	33/	..	"	108	15/6	17/6	20/	..	"	109	27/	30/	..	..	"	110	60/	..	..	..	"
No.	1	2	3	4																																																																																																										
96	10/	12/	14/	..	per doz																																																																																																									
97	17/	19/	21/	..	"																																																																																																									
98	25/	30/	35/	40/	"																																																																																																									
99	18/	21/	24/	27/	"																																																																																																									
100	18/	21/	24/	27/	"																																																																																																									
101	27/	30/	..	..	"																																																																																																									
102	32/	34/	36/	..	"																																																																																																									
103	22/	24/	26/	..	"																																																																																																									
104	26/	28/	30/	..	"																																																																																																									
105	36/	38/	40/	..	"																																																																																																									
106	29/	..	..	..	"																																																																																																									
	26/	..	..	..	"																																																																																																									
	42/	45/	..	..	"																																																																																																									
107	27/	30/	33/	..	"																																																																																																									
108	15/6	17/6	20/	..	"																																																																																																									
109	27/	30/	..	..	"																																																																																																									
110	60/	..	..	..	"																																																																																																									
		Farriers' Shoeing Hammers .....																																																																																																												
		London ditto ditto .....																																																																																																												
		Iron-handled Grocers' ditto .....																																																																																																												
		Ditto Claw ditto .....																																																																																																												
		Ditto Packers' ditto .....																																																																																																												
		Orange-Chest ditto .....																																																																																																												
		American Claw ditto .....																																																																																																												
		Ditto ditto, without Langata.....																																																																																																												
		Ditto ditto, ditto, Solid Cast Steel.....																																																																																																												
		Ditto ditto, with Langata, ditto ditto .....																																																																																																												
		Slaters' Peck ditto .....																																																																																																												
		Ditto ditto, without Claw .....																																																																																																												
		Slaters' Axe or Knife, with Pick .....																																																																																																												
		Plumbers' Claw Hammers .....																																																																																																												
		Ditto Pane ditto .....																																																																																																												
		Horticulturalists' ditto .....																																																																																																												
		Loudon's Hatchet, or Improved Horticulturalists' Hammer.....																																																																																																												





Dis- count	No.	
---------------	-----	--

HAMMERS.														
No.	1	2	3	4										
108A	Ladies' Claw Hammers .....	13/0	15/0	17/0	19/0	per doz.								
109A	Ladies' Rivetting do. ....	13/0	15/0	17/0	19/0	"								
110A	Gentlemen's do. ....	13/0	15/0	17/0	19/0	"								
111	Best Saddlers' do. ....	18/0	20/0	22/0	25/0	"								
112	Upholsterers' do. ....	13/0	15/0	17/0	19/0	"								
113	London Upholsterers' do. ....	17/0	19/0	21/0	24/0	"								
114	Benwell's do. do. Solid Head.....	24/0	25/0	28/0	..	"								
115	Coach Trimmers' do. ....	25/0	27/0	29/0	..	"								
115A	Cabriolet do. ....	24/0	26/0	28/0	..	"								
116	Carpet do. ....	18/0	20/0	..	..	"								
117	Carpet do., with Claw in Handle .....	12/0	14/0	..	..	"								
118	Gentlemen's do. Common .....	10/6	12/6	15/0	..	"								
119	Toy do. ....	8/0	10/6	12/6	..	"								

No.	0	1	2	3	4	5	6	7	8	9	10	11	12	
120	Exeter Hammers, Handled	8/6	9/6	10/	11/6	13/	14/6	16/	19/	21/6	23/	24/6	26/	28.6
121	Best Clench do., do.	8/6	9/6	10/	11/6	13/	14/6	16/	19/	21/6	23/	24/6	26/	28.6

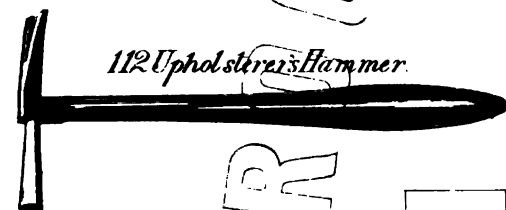
Gentlemen's, Ladies', and Upholsterers' Hammers, with Hard Wood Handles, 6/0 per doz. extra.



*108 A. Ladies Claw Hammer.*



*110 A. Gentleman's Hammer.*



*112 Upholsterer's Hammer.*



*113 London Upholsterer's Hammer.*



*116 Carpet Hammer.*



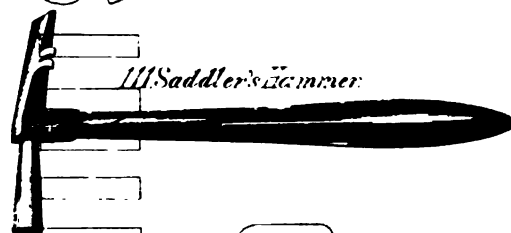
*118 Gentleman's Hammer.*



*120 Exeter Hammer Oval Handles*



*109 A. Ladies Revolving Hammer*



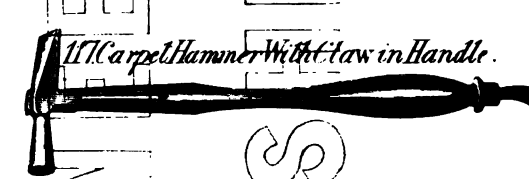
*111 Saddler's Hammer.*



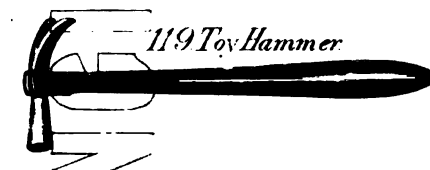
*114 Benwell's Upholsterer's Hammer.*



*115 Coach Trimmers Hammer*



*117 Carpet Hammer With Claw in Handle.*



*119 Toy Hammer*

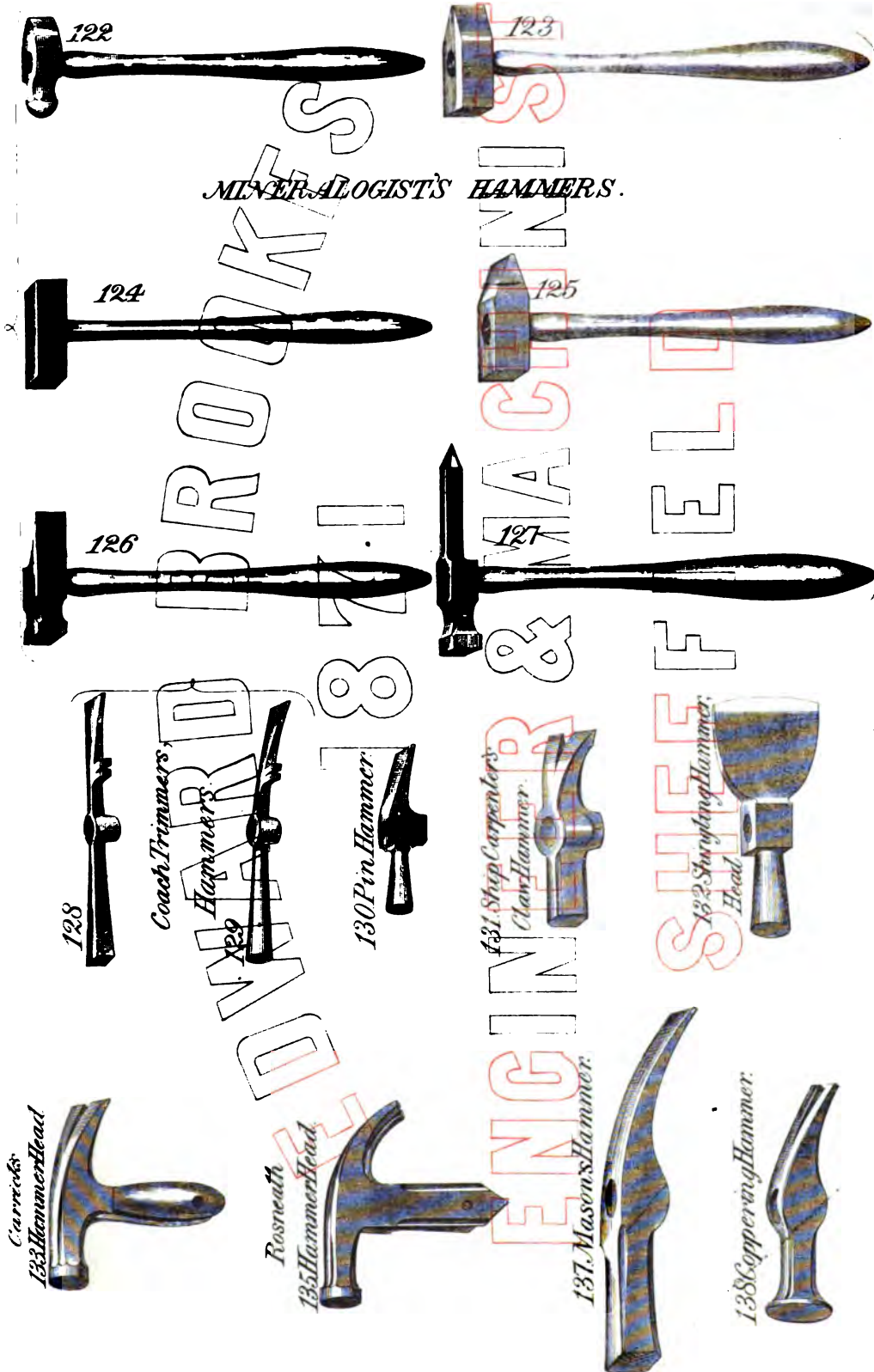


*121 Best Clench Hammer Oval Handles*

# THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.										
HAMMERS.											
		No.	122	123	124	125	126	127			
128	Mineralogists' Hammers.....		14/6	14/6	14/6	14/6	14/6	14/6	per doz.		
		No.	1	2	3						
128	Trimmers' Hammer Heads .....		24/0	28/0	32/0	per doz.					
129	Ditto ditto .....		24/0	28/0	32/0	"					
		No.	1	2	3	4	5	6			
130	Pin Hammers .....		14/0	16/0	20/0	..	..	..	per doz.		
131	Ship Carpenters' Claw Hammer Heads .....		10/6	12/6	15/6	18/6	22/0	26/0	"		
		No.	1	2	3						
132	Shingling Hammer Heads .....		24/0	26/0	28/0	per doz.					
133	Carrick's do. do. ....		24/6	27/6	30/6	"					
134	Ditto do. do. Handled .....		30/6	33/6	36/6	"					
135	Rosneath do. do. ....		36/0	40/0	44/0	"					
136	Ditto do. do. Handled .....		42/0	46/0	50/0	"					
137	Mason's Hammers, 3 lbs. each and upwards, 9d. per lb.										
138	Coppering Hammers, 18/6 per dozen.										





## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## PLIERS.

No.	139	140	141	142	143	144	145	146	
Bright Flat Nose Pliers ..	3	3½	4	4½	5	5½	6	6½	inches.
	5/6	5/6	5/6	6/0	7/6	9/0	10/6	12/0	per doz.
No.	147	148	149	150	151	152	153	154	
Bright Round Nose Pliers	3	3½	4	4½	5	5½	6	6½	inches.
	5/6	5/6	5/6	6/0	7/6	9/0	10/6	12/0	per doz.

## CARPENTERS' PINCERS AND CUTTING NIPPERS.

	No.	155	156	157	158	159	160	161	162	163	164	165		
Carpenters' Pincers .....		6	6½	7	7½	8	8½	9	9½	10	11	12	inches.	
		5/6	6/6	7/6	8/6	9/6	10/6	12/	14/	16/	20/	24/	per doz.	
	No.	166	167	168	169	170	171	172	173	174	175	176	177	
Best Tower Pincers, Warranted		6	6½	7	7½	8	8½	9	9½	10	10½	11	12	inches.
		8/	9/	10/	12/	14/	16/	18/	21/	24/	27/	30/	36/	per doz.
	No.	178	179	180	181	182	183	184	185	186	187	188	189	
Best Lancashire Pincers, Warranted		6	6½	7	7½	8	8½	9	9½	10	10½	11	12	inches.
		11/	12/	13/6	15/	17/	20/	23/	26/	29/	..	..	..	per doz.
	No.	190	191	192	193	194	195	196	197	198	199	200		
Best Tower Cutting Nippers, Warranted		6	6½	7	7½	8	8½	9	9½	10	11	12	inches.	
		11/	13/	15/	17/6	20/	23/	27/	30/	33/	40/	48/	per doz.	

*Bright  
Flat Nose Pliers.*



146



144



142

*Bright  
Round Nose Pliers.*



154



152

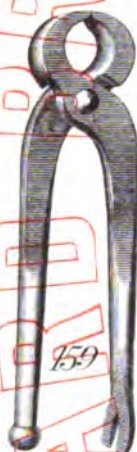


150

*Carpenter's Pincers.*



161

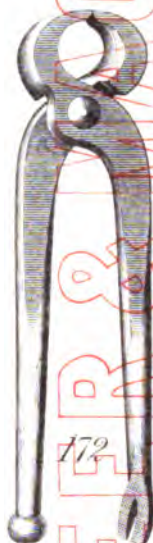


159

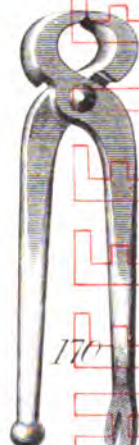


157

*Best Tower Pincers.  
Warranted.*



172



170



168

*Best Lancashire Pincers.  
Warranted.*



184



182



180

*Best Tower Cutting Nippers.  
Warranted.*



196



194



192

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## SHOE, SADDLERS', AND HARNESS PUNCHES.

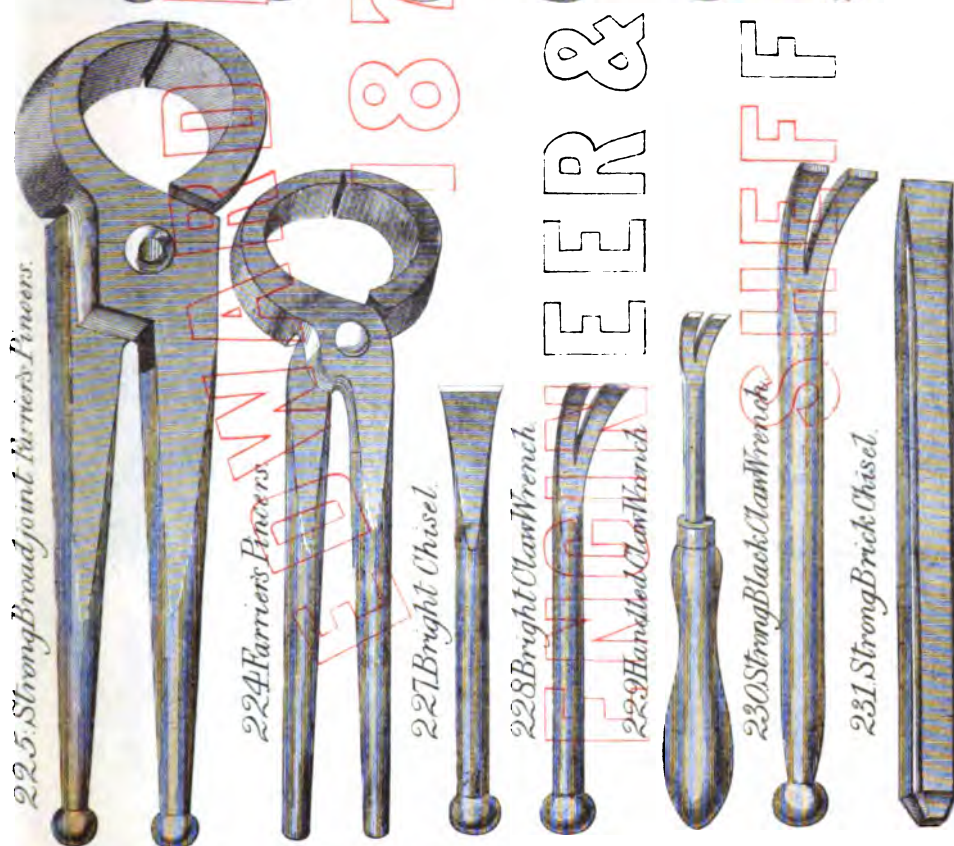
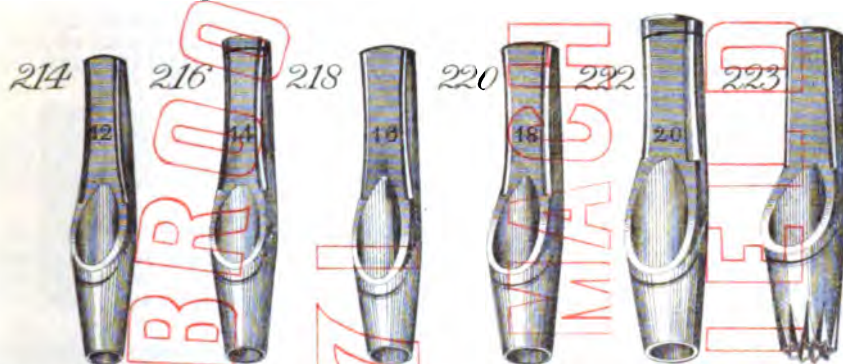
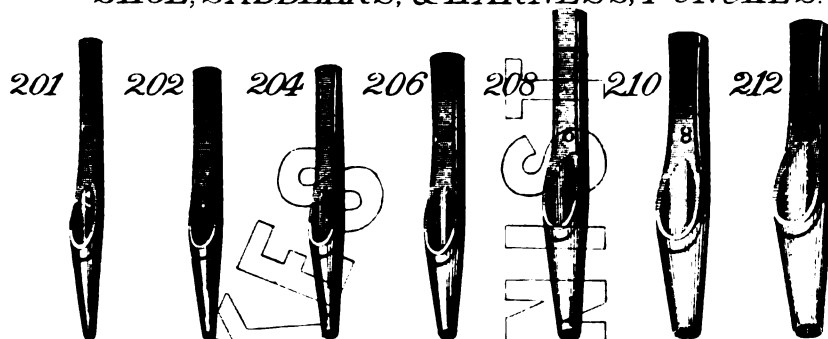
No.	201	202	204	205	206	207	208	209	210	211	212	
	2/9	3/0	3/6	4/0	4/0	4/0	4/6	5/0	6/0	7/0	8/0	per dozen.
No.	213	214	215	216	217	218	219	220	221	222	223	
	9/0	10/0	12/0	14/0	16/0	18/0	20/0	22/0	26/0	30/0	32/0	per dozen.

## FARRIERS' PINCERS, &amp;c.

		7	8	9	10	11	12	13	inches.
224	Best Farriers' Pincers .....	..	..	20/0	22/0	24/0	27/0	30/0	per dozen.
225	Strong Broad Joint Farriers' Pincers ..	..	..	..	27/0	30/0	33/0	36/0	"
226	Common Farriers' Pincers .....	..	..	14/0	16/0	18/0	21/0	24/0	"
227	Bright Upholsterers' Chisels .....	7/0	8/6	10/0	12/0	14/0	16/0	..	"
228	Bright Claw Wrenches .....	7/0	8/6	10/0	12/0	14/0	16/0	..	"
229	Handled Claw Wrenches.....	12/6	..	..	..	..	..	..	"
230	Strong Black Claw Wrenches.....	..	..	..	10/0	12/0	14/0	..	"
231	Strong Brick Chisels .....	..	..	..	9/0	11/0	13/0	..	"



SHOE, SADDLERS, & HARNESS, PUNCHES.



THE ILLUSTRATED SHEFFIELD LIST.

DIS-COUNT.

No.

SHOE NIPPERS, SHOE PINCERS, &c.

						5½	6	6½	7	inches.	
269	Bright Shoe Nippers.....					5/0	5/6	6/6	7/6	per doz.	
270	Best Black ditto .....					6/0	6/6	7/6	9/0	"	
271	Bright Box Joint Nippers .....					12/0	13/0	15/0	17/0	"	
272	Shoe Nipper, with Hammer .....					..	6/0	7/6	9/6	"	
273	Bright Box Joint ditto .....					..	12/0	14/0	16/0	"	
		No.	274	275	276	277	278	279	280	280A	
274	Shoe Pincers .....		6½	7	7½	8	8½	9	9½	10	inches.
			10/6	10/6	12/0	13/0	14/0	16/0	18/0	20/0	per doz.
			No.								
			281 282 283								
281	French Shoe Pincers.....		7½ 8 8½ inches.								
			16/0 17/0 18/0 per doz.								
			No.								
			5½ 6 6½ 7 inches.								
283A	Gentlemen's Bright Pincers.....		16/0 18/0 21/0 24/0 per doz.								
284	Best Bright Shoe Punch Pliers .....	20/0 per dozen	Punches only.... 5/0 per dozen.								
284A	Ditto ditto, with Cutter ..	25/0 "									
285	Sheep Ear Pliers, Solid Punch .....	6/0 each.									
			No.								
			7 7½ 8 8½ 9 inches.								
286	Tinmen's Pliers .....		10/0 12/0 14/0 16/0 18/0 per doz.								
			No.								
			8 10 12 Teeth.								
287	Carpet Strainers.....		25/6 28/0 30/0 per doz.								
288	Ditto Bent Socket .....		.. 28/0 30/0 "								
			No.								
			14 16 18 19 20 21 22 23 24 inches.								
288A	Bright Steak Tonge .....		13/ 15/ 18/ 21/ 24/ 27/ 31/ 35/ 41/ per doz.								
288B	Ditto ditto, with Bar.....		16/ 18/ 21/ 24/ 27/ 30/ 34/ 38/ 44/ "								
288C	Bright Flesh Forks .....		.. .. 15/6 .. 17/ .. 20/ .. 25/ "								

*Bright  
Shoe Nippers.*



*Box Joint Shoe Nippers  
Bright.*



*Best Black  
Shoe Nippers.*



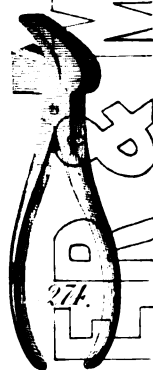
*Shoe Nipper  
with Hammer.*



*Box Joint  
Shoe Nipper  
with Hammer.*



*Shoe Pincers.*



*French  
Shoe Pincers.*



*Best Bright  
Shoe Punch Pliers.*



*Solid Punch.*



*Tinman's  
Pliers.*



*Carpet Strainers.*



## THE ILLUSTRATED SHEFFIELD LIST.

DIS-COUNT.

No.

SHOE NIPPERS, SHOE PINCERS, &c.

						5½	6	6½	7	inches.
269	Bright Shoe Nippers.....					5/0	5/6	6/6	7/6	per doz.
270	Best Black ditto .....					6/0	6/6	7/6	9/0	"
271	Bright Box Joint Nippers .....					12/0	13/0	15/0	17/0	"
272	Shoe Nipper, with Hammer .....					..	6/0	7/6	9/6	"
273	Bright Box Joint ditto .....					..	12/0	14/0	16/0	"

	No.	274	275	276	277	278	279	280	280A	
274	Shoe Pincers .....	6½	7	7½	8	8½	9	9½	10	inches.
		10/6	10/6	12/0	13/0	14/0	16/0	18/0	20/0	per doz.

	No.	281	282	283	
281	French Shoe Pincers.....	7½	8	8½	inches.
		16/0	17/0	18/0	per doz.

		5½	6	6½	7	inches.
283A	Gentlemen's Bright Pincers.....	16/0	18/0	21/0	24/0	per doz.

284	Best Bright Shoe Punch Pliers .....	20/0 per dozen	Punches only....	5/0 per dozen.
284A	Ditto ditto, with Cutter ..	25/0	"	
285	Sheep Ear Pliers, Solid Punch .....	6/0 each.		

		7	7½	8	8½	9	inches.
286	Tinmen's Pliers .....	10/0	12/0	14/0	16/0	18/0	per doz.

		8	10	12	Teeth.
287	Carpet Strainers.....	25/6	28/0	30/0	per doz.
288	Ditto Bent Socket .....	..	28/0	30/0	"

		14	16	18	19	20	21	22	23	24	inches.
288A	Bright Steak Tonge .....	13/	15/	18/	21/	24/	27/	31/	35/	41/	per doz.
288B	Ditto ditto, with Bar.....	16/	18/	21/	24/	27/	30/	34/	38/	44/	"
288C	Bright Flesh Forks .....	..	..	15/6	..	17/	..	20/	..	25/	"



*Bright  
Shoe Nippers.*



269.

*Box Joint Shoe Nippers  
Bright.*



271.



*Best Black  
Shoe Nippers.*



270.



*Shoe Nipper  
with Hammer.*



272.

*Box Joint  
Shoe Nipper  
with Hammer.*



273.



273.

*Shoe Pincers.*



274.



279.



277.

*French  
Shoe Pincers.*



281

*Best Bright  
Shoe Punch Pliers.*



284

*Solid Punch.*



285

*Tinman's  
Pliers.*



286

*Carpet Strippers.*



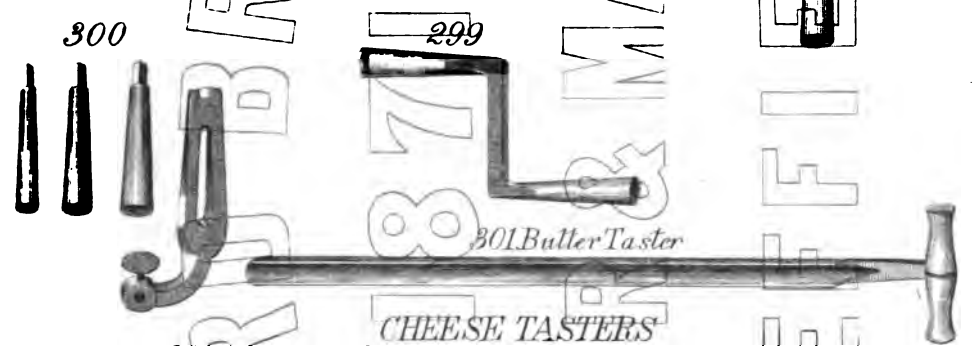
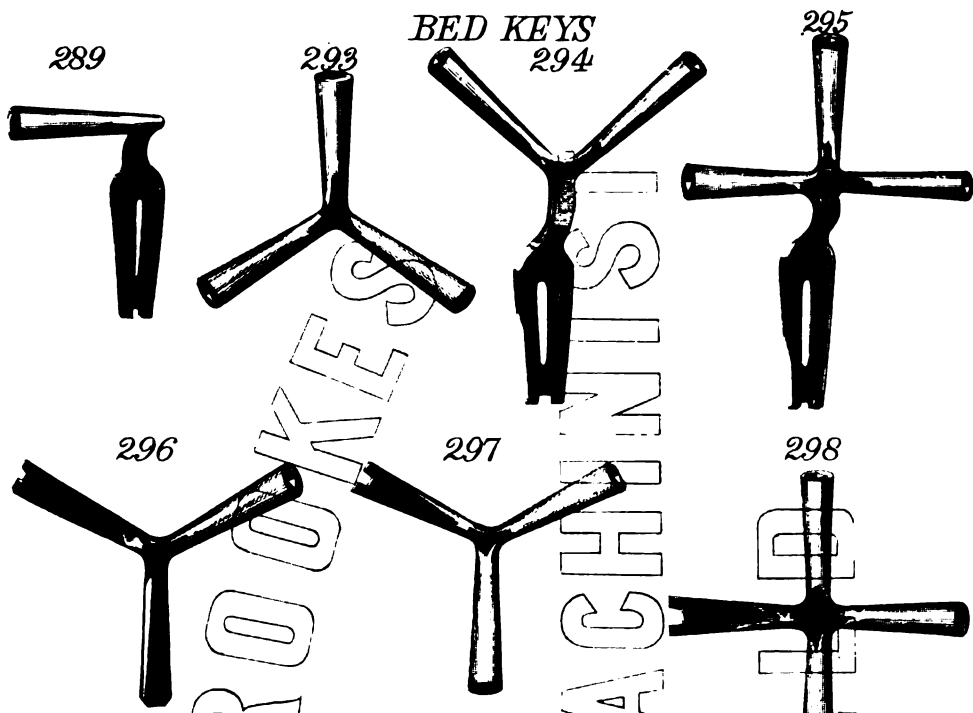
287.



288.

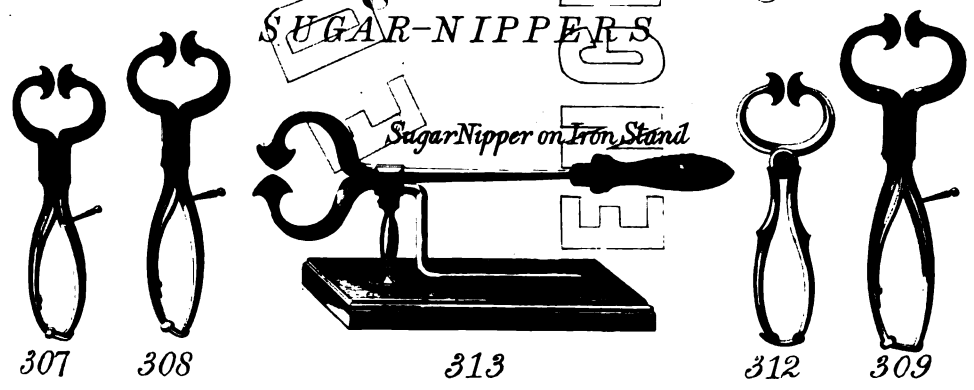


BED KEYS



CHEESE TASTERS

SUGAR-NIPPERS



# THE ILLUSTRATED SHEFFIELD LIST.

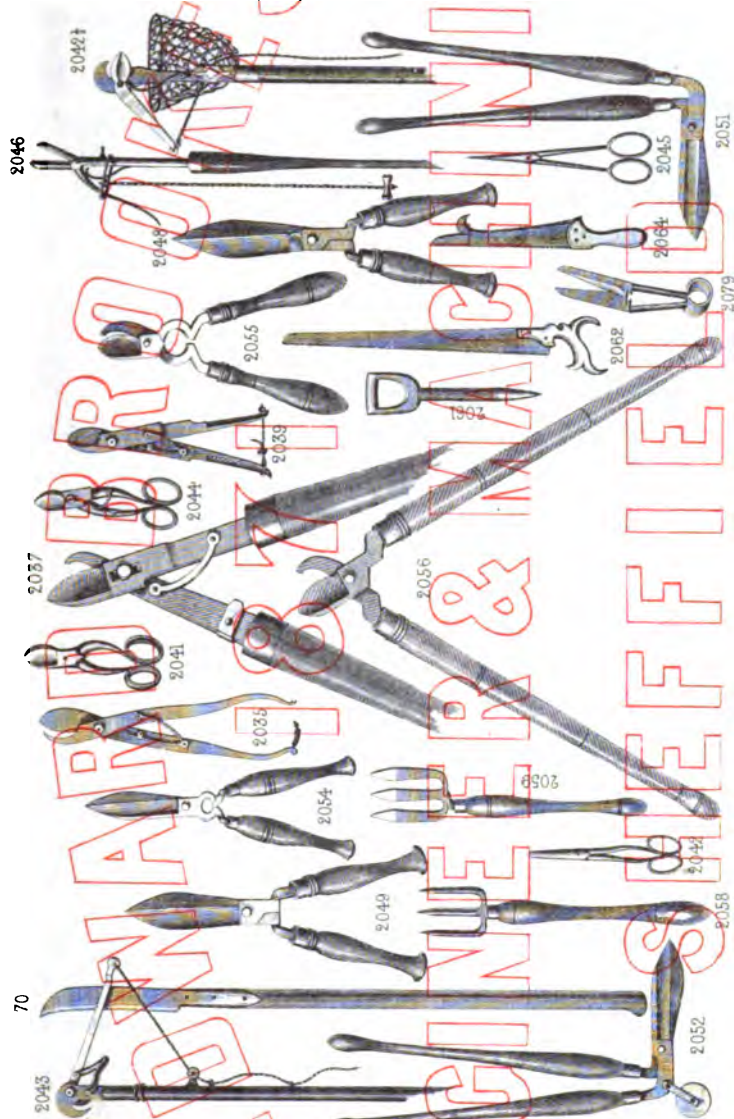
Dis-  
count.

No.

SLIDE PRUNING SHEARS, GARDEN SHEARS, &c.

		8	9	10	11	inches.							
2035	Hand Slide Pruning Shears, Black .....	3/6	4/3	4/9	5/9	per pair.							
2036	Ditto ditto, Bright .....	4/9	5/6	6/3	7/3	"							
2037	Sliding Pruning Shears, with Long Wood Handles, Black .....	5/0	6/0	8/0	11/0	"							
2038	Ditto ditto, ditto, Bright .....	6/6	8/6	11/0	13/6	"							
2039	Ladies' Sliding Pruning Shears, Bright, with Cocoa Handles, 6/6; Ivory Handles, 7/6 per pair.												
		8	9	10	11	inches.							
2040	Wakefield Sliding Pruning Shears, Bright .....	6/0	7/0	8/0	2/0	per pair.							
		4	4½	5	5½	6	6½	7	8	inches.			
2041	Pruning Scissors, with Bows .....	14/0	15/0	16/6	17/6	19/0	21/0	23/6	29/0	per doz.			
2042	Flower Gatherers .....		16/0	18/0	21/0	24/0	28/0	33/0	42/0	"			
2042½	Fruit Gatherers, with Handle in two parts, 8 feet long, 20/0 each.												
2043	Avarancators, ditto 6 feet long, Black, 20/0; Bright, 30/0 each.												
		6	7	8	inches.								
2044	Bow Slide Pruning Scissors .....	5/0	6/3	7/6	per pair.								
2045	Vine Scissors.....	16/0	20/0	28/0	"								
2046	Grape Gatherer, with Handle 4 feet long, 9/0 per pair; if without Handle, 7/9 per pair.												
		7½	8	8½	9	9½	10	10½	11	11½	12	12½	inches.
2047	Garden Shears, with Bright Hoops.....	2/4	2/6	3/0	3/6	4/0	4/3	4/6	5/0	5/9	6/9	7/9	per pair.
2048	Ditto, with Pruning Notch .....	2/9	3/0	3/6	4/0	4/6	4/9	5/0	5/6	6/3	7/3	8/3	"
2049	Ditto, Warranted .....		4/0	4/3	4/6	5/0	5/2	5/8	6/2	6/10	7/9	8/9	"
2050	Ditto, Warranted, with Pruning Notch..		4/6	4/9	5/0	5/4	5/7	6/0	6/6	7/2	8/2	9/2	"
2051	Grass or Border Shears.....		4/9	5/0	5/6	6/0	6/6	7/0	7/6				"
2052	Ditto, with Wheel .....		5/6	6/0	6/6	7/0	7/6	8/0	8/6				"
2052½	Lawn Grass Shears .....		4/9	5/0	5/6	6/0	6/6	7/0	7/6				"
2053	Ditto, with Two Wheels .....		6/6	7/0	7/6	8/0	8/6	9/0	9/6				"
		1st.	2nd.	3rd.	4th.	sizes.							
2054	Ladies' Garden Shears .....	2/6	2/9			per pair.							
2055	Ditto Pruning Shears, with Wood Handles and Brass Hoops ....	4/4	5/0			"							
2056	Branch or Lopping Shears, ditto .....	5/0	6/0	7/0	8/6	"							
		2	2½	2¾	2½	3	inches.						
2057	Socket Pruning Chisels .....	15/6	18/6	21/6	27/6	33/0	per doz.						
2057A	Ditto ditto with one Hook, 15/0 extra; with two Hooks, 24/0 extra.												
2058	Black Weeding Fork, with Handle 15 inches long.....					10/6	per dozen.						
2059	Ladies' Blued Flower Fork, ditto .....					20/0							
2060	Ditto ditto, with Short Handle.....					17/0	"						
2061	Garden Dibblers, with Crutch or Open Handle .....					10/0	"						
		14	16	18	20	22	24	inches.					
2062	Pruning Saws, German Steel.....	28/0	35/0	40/0	45/0	49/0	55/0	per doz.					
2063	Ditto, Cast Steel .....	32/0	40/0	45/0	50/0	55/0	63/0	"					
2064	Improved Pruning Saw, with Bill Hook, 5/6 each.												
		No.	70	80	90								
2065	Improved Dunse Switching Bills.....		36/0	40/0	44/0	per doz.							
		0	1	2	3	4	5	6					
2064A	Bright Garden Hammers, with Chequered Faces..	10/0	12/0	14/0	16/0	18/0			doz.				
2065	Best Scotch Garden ditto, ditto ..		18/0	20/0	22/0	24/0			"				
2065A	Black Helved Hatchets .....	12/6	13/0	14/0	15/6	17/6	19/6	22/0	"				
2066	Best Steel Polled Hatchets .....	18/0	18/6	19/6	21/0	26/0	28/0	30/0	"				
		2	3	4	5	6	7	8	9	10	in.		
2067	Garden Hoes .....	4/8	5/0	5/6	6/0	7/0	8/	9/0	10/	11/0	doz.		
2068	Ditto, Cast Steel Solid, or Patent Rivetted	5/0	5/6	6/0	6/6	7/6	9/	10/6	12/	13/6	"		
2069	Half-Moon ditto .....	5/0	5/6	6/0	6/6	7/6	9/	10/6	12/	13/6	"		
2070	Dutch Hoes.....	6/6	7/6	8/6	9/6	11/0	12/	13/0	14/	15/0	"		
2071	Ditto Cast Steel .....			12/0	14/6	16/0	17/	18/0	19/	20/0	"		
2072	Triangle Hoes.....			8/0	10/0	12/0	14/	16/0	18/	20/0	"		
2075	Prussian Hoes.....			12/0	14/6	16/0	17/	18/0	19/	20/0	"		
	Garden Hoes, with Long Necks, 6d. per dozen extra.												
		3	3½	4	4½	inches.							
2072A	Grubbing or Potato Hoes .....	23/3	25/0	26/9	28/6	per doz.							





THE ILLUSTRATED SHEFFIELD LIST.

Drs.  
COUNT.

No.

GARDEN RAKES, SPUDS, HORTICULTURAL HAMMERS, &c.

2073

Garden Rakes, Bolstered Teeth :—

4

5

6

7

8

9

10

11

12

13

14

15

16

18

Teeth.

4/0

5/0

6/0

7/0

8/0

9/0

10/0

11/0

12/0

13/0

14/0

15/0

16/0

18/0

dozen.

2074

Best Garden Rakes, with Solid Ends :—

6/0

6/6

7/0

8/0

9/0

10/0

11/0

12/0

13/6

15/0

16/0

17/0

18/0

19/6

„

No.

1

1½

2

2½

inches.

2076

Black Garden Spuds

6/0

6/0

6/6

7/0

dozen.

2077

Bright Scotch Thistle Spuds

10/6

10/6

10/6

..

„

2078

Blued Spud and Weed Hook

10/6

10/6

10/6

..

„

2078A

Ditto

ditto,

on Handle 15 inches long

14/6

14/6

14/6

..

„

2078B

Ditto

ditto,

on Strong Walking Sticks

..

..

20/0

..

„

2079

Spring Grass Shears, 24/0 per dozen.

2080

Botanical Spuds, 10/6 per dozen; ditto, Handled, 14/6 per dozen.

2081

Improved Horticultural or Loudon's Hatchet, 5/0 each.



## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count	No.	
<b>HORTICULTURAL TOOL CHESTS, SCYTHES, &amp;c.</b>		
2103		HORTICULTURAL TOOL CHEST, containing Garden Hoe, Dutch Hoe, Triangular Hoe, Spud, Weeding Hook, Garden Rake, Garden Shears, Improved Slide Pruning Shears, Sliding Pruning Scissors, Flower Gatherer, Vine Scissors, Pruning Saw, Cast Steel Blued Garden Trowel, Garden Hammer, Garden Reel, Pruning Knife with Stag Handle, Budding Knife with Ivory Handle. All the Tools requiring it are made to screw into a Socket attached to a hardwood Handle, 3 feet 4 inches long. .... 60/0 each.
2104		HORTICULTURAL TOOL CHEST, containing Garden Hoe, Dutch Hoe, Triangular Hoe, Spud, Weeding Hook, Garden Rake, Garden Shears, Improved Slide Pruning Shears, Sliding Pruning Scissors, Flower Gatherer, Vine Scissors, Pruning Saw, Cast Steel Blued Garden Trowel, Garden Hammer, Garden Reel, Garden Spade with Jointed Handle, Pruning Knife with Stag Handle, Budding Knife with Ivory Handle. All the Tools requiring it are made to screw into a Socket attached to a Hardwood Handle, 3 feet 4 inches long. .... 68/0 each.
2104A		Sets of Ladies' Garden Tools, consisting of Garden Hoe, Dutch Hoe, Garden Rake, and Weeding Hook, all made to screw into one Socket attached to a Hardwood Handle, 13/ per set
2106		Lawn or Grass Rakes .....   16   18   20   22   24   26   teeth.   5/0   5/6   6/0   6/6   7/0   7/6   each.
2106		Grass Plot Edging Knives .....   5   5½   6   6½   7   8   9   10   11   12   in. 2106A Ditto ditto, Cast Steel ..   ..   ..   ..   ..   ..   24/6   24/6   27/   29/   32/   doz. 2107 Black Garden Trowel, Polished Handles   8/   8/   8/   9/   10/   12/0   ..   ..   ..   ..   .. 2107A Cast Steel Blued ditto, ditto ..   16/   16/   16/   17/   19/   21/0   ..   ..   ..   ..   .. 2108 Ditto ditto, Flat, ditto ..   16/   16/   16/   17/   19/   21/0   ..   ..   ..   ..   ..
		No.   1   2   3
2109		Gentlemen's Claw Hatchet .....   30/0   33/6   37/0
2110		Canada Hatchet, Blued.....   30/0   34/0   39/0
2111		Best Felling Axe, 10½d. per lb.
2112		Electro Boracic Canada Wedge Axe, 1/4 per lb.; above 3lb., 1/3 per lb.; (if Handled, 24/6 per dozen extra, gross.)
2113		Ladies' Brass Garden Syringe, with three loose Grates ..... 7/6 each.
2114		Full size ditto ditto, ditto ..... 11/6 "
2115		Reed's Pattern or Ball Valve, ditto ..... 16/0 "
2115A		Knuckle Joint ditto, ditto ..... 25/0 "
2116		Brass Garden Engine ..... 60/0 "
<b>PATENT SCYTHES, for England, Ireland, Scotland, Wales, and American Grain.</b>		
2117		Patent Scythes .....   30   32   34   36   38   40   42   44   46   inches 2118 Crown ditto .....   34/0   34/0   34/0   35/0   36/0   37/6   39/0   40/6   42/0   per doz. 2119 Extra Warranted .....   35/6   35/6   35/6   36/0   37/6   39/0   40/6   42/0   43/6   "     40/0   40/0   40/0   41/0   42/0   43/0   44/0   45/6   47/6   "
2117		Patent Scythes .....   48   50   52   54   56   58   60   62   64   inches 2118 Crown ditto .....   43/6   45/0   46/6   48/0   49/6   51/0   52/6   54/0   57/0   per doz. 2119 Extra Warranted .....   45/6   49/0   52/6   55/6   58/6   62/0   65/0   68/0   72/0   "     50/0   52/6   55/0   58/0   61/0   64/0   67/0   70/0   74/0   "



# THE ILLUSTRATED SHEFFIELD LIST.

80

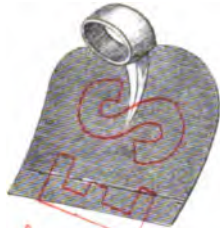
DISEASE.	No.	CAROLINA HOES, &c.															
		Sizes..	6 by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	9½ by 10½	10 by 11	11 by 12	12 by 13	13 by 14	14 by 15	15 by 16	16 by 17
	2120	Carolina Hoe, Half-Bright, well Steeled .....	0000	000	00	0	1	2	3	4							
	2121	Ditto, Cast Steel, Polished Back, Warranted to Cut as an Adze .....	11/0	12/0	13/0	15/0	17/0	19/0	21/0	23/0	25/0	27/0	29/0	31/0	33/0	35/0	37/0
	2122	Ditto, Bright Back, well Steeled .....	17/0	18/6	20/0	23/0	26/6	29/0	32/6	35/0	38/6	41/0	44/6	47/0	50/6	53/0	56/6
	2123	Ditto, Full Weight, Japanned or Self-Coloured, well Steeled ..	13/6	14/6	15/9	18/3	20/6	23/0	26/6	29/0	32/6	35/0	38/6	41/0	44/6	47/0	50/6
	2124	Ditto, Light Weight, Japanned or Self-Coloured, well Steeled..	11/0	12/0	13/0	15/0	17/0	19/0	21/0	23/0	25/0	27/0	29/0	31/0	33/0	35/0	37/0
	2125	Ditto, Iron, Light Weight, Japanned or Self-Coloured .....	9/3	9/9	10/6	12/0	13/6	15/3	17/0	18/6	20/0	21/6	23/0	24/6	26/0	27/6	29/0
		Sizes.. 5½ by 6½ 6 by 7 6½ by 7½ 7 by 8 7½ by 8½ 8 by 9 8½ by 9½ 9 by 10 9½ by 10½ 10 by 11 11 by 12 12 by 13 13 by 14 14 by 15 15 by 16 16 by 17	8/3	9/0	10/0	11/3	12/6	14/0	15/0	16/6	18/0	19/6	21/0	22/6	24/0	25/6	27/0
		00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	2126	DEMERRARA HOE, STEELED .....	10/0	11/0	12/0	14/0	16/0	18/0	20/0	22/0	24/0	26/0	28/0	30/0	32/0	34/0	36/0
	2127	Demerara Hoe, Light Weight, Steeled .....	8/3	9/9	10/9	12/3	13/3	14/6	16/3	18/0	19/6	21/0	22/6	24/0	25/6	27/0	28/6
		If extra Weight, 1/0 per dozen extra.															
	2128	P. and Crown West India Hoes .....	Sizes..	5½ by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	9½ by 10½	10 by 11	11 by 12	12 by 13	13 by 14	14 by 15	15 by 16
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	2129	PATENT RIVETTED EYED CAST STEEL CAROLINA HOE .....	Sizes..	5½ by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	9½ by 10½	10 by 11	11 by 12	12 by 13	13 by 14	14 by 15	15 by 16
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		WEST INDIA HOES.	Sizes..	5 by 6½	5½ by 7	6 by 7½	6½ by 8	7 by 9	7½ by 10	8 by 11	8½ by 12	9 by 13	9½ by 14	10 by 15	10½ by 16	11 by 17	11½ by 18
			00	0	1	2	3	4	5	6	7	8	9	10	11	12	13
	2130	Bright Back, Full Weight, Steeled, West India Hoe .....	14/6	16/0	18/6	20/6	23/0	25/6	28/0	30/6	33/0	35/6	38/0	40/6	43/0	45/6	48/0
	2131	Full Weight, Steeled, Half-Bright, ditto .....	12/0	13/0	15/0	17/0	19/0	21/0	23/0	25/0	27/0	29/0	31/0	33/0	35/0	37/0	39/0
	2132	Ditto Steeled, Japanned or Self-Coloured, ditto .....	11/0	12/0	13/6	15/6	17/6	19/0	20/9	22/6	24/6	26/0	27/9	29/0	30/9	32/0	33/9
	2133	Light Weight, Steeled, Japanned or Self-Coloured, ditto .....	12/0	13/0	15/0	17/0	19/0	21/0	23/0	25/0	27/0	29/0	31/0	33/0	35/0	37/0	39/0
		Sizes.. 5 by 7 5½ by 7½ 6 by 8 6½ by 8½ 7 by 9 7½ by 9½ 8 by 10 8½ by 10½ 9 by 11 9½ by 11½ 10 by 12 10½ by 12½ 11 by 13 11½ by 13½ 12 by 14 12½ by 14½	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13
	2134	Br. Polished Back, C.S. West India Hoe, Warntd. to cut as an Adze ..	15/0	17/0	19/0	21/0	23/0	25/0	27/0	29/0	31/0	33/0	35/0	37/0	39/0	41/0	43/0
	2135	Light Barbadoes or West India Hoe, all Iron .....	Sizes..	5½ by 6½	6 by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	9½ by 10½	10 by 11	10½ by 11½	11 by 12	11½ by 12½	12 by 13
			13/0	15/0	17/0	19/0	21/0	23/0	25/0	27/0	29/0	31/0	33/0	35/0	37/0	39/0	41/0
	2136	Frenchay West India Hoe, Heavy Steeled .....	Sizes..	5½ by 6½	6 by 7	6½ by 7½	7 by 8	7½ by 8½	8 by 9	8½ by 9½	9 by 10	9½ by 10½	10 by 11	10½ by 11½	11 by 12	11½ by 12½	12 by 13
			15/0	17/0	19/0	21/0	23/0	25/0	27/0	29/0	31/0	33/0	35/0	37/0	39/0	41/0	43/0
		Sizes.. 4½ by 7½ 5 by 8½ 5½ by 9½ 6 by 10½ 6½ by 11½ 7 by 12½ 7½ by 13½ 8 by 14½ 8½ by 15½ 9 by 16½ 9½ by 17½ 10 by 18½ 10½ by 19½ 11 by 20½ 11½ by 21½ 12 by 22½ 12½ by 23½	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	2137	STRONG HILLING OR RICE HOE, STEELED .....	13/0	14/6	16/4	18/0	19/6	21/0	22/6	24/0	25/6	27/0	28/6	30/0	31/6	33/0	34/6
	2138	Light Hilling or Rice Hoe, Steeled .....	11/6	13/0	14/6	16/0	17/6	19/0	20/6	22/0	23/6	25/0	26/6	28/0	29/6	31/0	32/6
	2139	COLUMBIA HOE, WELL STEELED .....	Sizes..	7 by 6½	7½ by 7½	8 by 8½	8½ by 9½	9 by 10½	9½ by 11½	10 by 12½	10½ by 13½	11 by 14½	11½ by 15½	12 by 16½	12½ by 17½	13 by 18½	13½ by 19½
			14/6	17/0	19/6	22/0	24/6	27/0	29/6	32/0	34/6	37/0	39/6	42/0	44/6	47/0	49/6

No.	Description	7	7 1/2	8	8 1/2	9	9 1/2	inches.
<b>PLANTATION HOES, &amp;c.—Continued.</b>								
<b>BOSTON OR CANADA HOES.</b>								
2140	Boston or Canada Hoe, Bright Back, Polished, well Steeled	20/0	21/0	22/0	23/6	25/3	27/0	dozen.
2141	Black Japanned ditto, ditto	16/6	17/6	18/6	20/0	21/0	22/6	"
2142	Cast Steel Patent or Rivetted, Bright, ditto	..	..	28/6	30/0	31/6	33/0	"
	If Black Japanned, 2/0 per dozen less.							
2143	Twisted Neck Louisiana Hoe, Half-bright, well Steeled	1	2	3	4			
	If made from Cast Steel, 4/0 per dozen extra.	21/0	23/0	25/0	27/0	dozen.		
2144	German Neck Hoe	SIZES.. 6 by 7 1/2 by 7 1/2 by 8 1/2 by 8 1/2 by 8 1/2 inches.						
		16/0	18/0	20/0	22/0	dozen.		
2146	Spanish Ribbed Hoe Adze, (if all Iron, 3/0 per doz. less; if Cast Steel Fac'd and Blued, 8/0 per doz. extra.)	SIZES.. 17 1/2 by 4 1/2 by 5 1/2 by 5 1/2 by 6 inches.						
		18/0	20/0	22/0	24/0	dozen.		
2146	Brazil Hoe	SIZES.. 8 by 9 1/2 by 9 1/2 by 10 1/2 by 10 1/2 inches.						
		3 1/2	4	4 1/2	5	lbs. ea.		
	If Steeled, 3/6 per dozen extra.	17/6	19/6	21/6	24/0	dozen.		
2147	Spanish or Valparaiso Hoe	SIZES.. 6 by 10 1/2 by 11 1/2 by 11 1/2 by 12 inches.						
	If Steeled, 6/0 per doz. extra, each size Tapering 1/2 inch to Cutting Edge. If Cast Steel Fac'd and Blued, 14/6 per doz. extra.	4 1/2	5	5 1/2	6	lbs. ea.		
		20/0	22/0	24/0	26/6	dozen.		
2148	Ring Eyed Hoe, Steeled	SIZES.. 17 1/2 by 7 1/2 by 8 1/2 by 8 1/2 by 9 inches.						
		1	2	3	4			
2149	Ditto, Up-shouldered, new Pattern, Bright Back and Broad Blades	SIZES.. 16/0 18/0 20/0 22/0 24/0 26/0 28/0 30/0 32/0 34/0 36/0 38/0 40/0 42/0 44/0 46/0 48/0 50/0 52/0 54/0 56/0 58/0 60/0 62/0 64/0 66/0 68/0 70/0 72/0 74/0 76/0 78/0 80/0 82/0 84/0 86/0 88/0 90/0 92/0 94/0 96/0 98/0 100/0 102/0 104/0 106/0 108/0 110/0 112/0 114/0 116/0 118/0 120/0 122/0 124/0 126/0 128/0 130/0 132/0 134/0 136/0 138/0 140/0 142/0 144/0 146/0 148/0 150/0 152/0 154/0 156/0 158/0 160/0 162/0 164/0 166/0 168/0 170/0 172/0 174/0 176/0 178/0 180/0 182/0 184/0 186/0 188/0 190/0 192/0 194/0 196/0 198/0 200/0 202/0 204/0 206/0 208/0 210/0 212/0 214/0 216/0 218/0 220/0 222/0 224/0 226/0 228/0 230/0 232/0 234/0 236/0 238/0 240/0 242/0 244/0 246/0 248/0 250/0 252/0 254/0 256/0 258/0 260/0 262/0 264/0 266/0 268/0 270/0 272/0 274/0 276/0 278/0 280/0 282/0 284/0 286/0 288/0 290/0 292/0 294/0 296/0 298/0 300/0 302/0 304/0 306/0 308/0 310/0 312/0 314/0 316/0 318/0 320/0 322/0 324/0 326/0 328/0 330/0 332/0 334/0 336/0 338/0 340/0 342/0 344/0 346/0 348/0 350/0 352/0 354/0 356/0 358/0 360/0 362/0 364/0 366/0 368/0 370/0 372/0 374/0 376/0 378/0 380/0 382/0 384/0 386/0 388/0 390/0 392/0 394/0 396/0 398/0 400/0 402/0 404/0 406/0 408/0 410/0 412/0 414/0 416/0 418/0 420/0 422/0 424/0 426/0 428/0 430/0 432/0 434/0 436/0 438/0 440/0 442/0 444/0 446/0 448/0 450/0 452/0 454/0 456/0 458/0 460/0 462/0 464/0 466/0 468/0 470/0 472/0 474/0 476/0 478/0 480/0 482/0 484/0 486/0 488/0 490/0 492/0 494/0 496/0 498/0 500/0 502/0 504/0 506/0 508/0 510/0 512/0 514/0 516/0 518/0 520/0 522/0 524/0 526/0 528/0 530/0 532/0 534/0 536/0 538/0 540/0 542/0 544/0 546/0 548/0 550/0 552/0 554/0 556/0 558/0 560/0 562/0 564/0 566/0 568/0 570/0 572/0 574/0 576/0 578/0 580/0 582/0 584/0 586/0 588/0 590/0 592/0 594/0 596/0 598/0 600/0 602/0 604/0 606/0 608/0 610/0 612/0 614/0 616/0 618/0 620/0 622/0 624/0 626/0 628/0 630/0 632/0 634/0 636/0 638/0 640/0 642/0 644/0 646/0 648/0 650/0 652/0 654/0 656/0 658/0 660/0 662/0 664/0 666/0 668/0 670/0 672/0 674/0 676/0 678/0 680/0 682/0 684/0 686/0 688/0 690/0 692/0 694/0 696/0 698/0 700/0 702/0 704/0 706/0 708/0 710/0 712/0 714/0 716/0 718/0 720/0 722/0 724/0 726/0 728/0 730/0 732/0 734/0 736/0 738/0 740/0 742/0 744/0 746/0 748/0 750/0 752/0 754/0 756/0 758/0 760/0 762/0 764/0 766/0 768/0 770/0 772/0 774/0 776/0 778/0 780/0 782/0 784/0 786/0 788/0 790/0 792/0 794/0 796/0 798/0 800/0 802/0 804/0 806/0 808/0 810/0 812/0 814/0 816/0 818/0 820/0 822/0 824/0 826/0 828/0 830/0 832/0 834/0 836/0 838/0 840/0 842/0 844/0 846/0 848/0 850/0 852/0 854/0 856/0 858/0 860/0 862/0 864/0 866/0 868/0 870/0 872/0 874/0 876/0 878/0 880/0 882/0 884/0 886/0 888/0 890/0 892/0 894/0 896/0 898/0 900/0 902/0 904/0 906/0 908/0						

2120, Carolina.



2126, Democratic.

2128 P. & Crown  
West India.2129, Patent Rivetted  
Eyed Carolina.

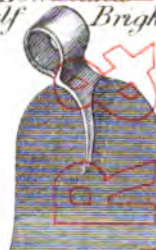
2130, West India.



2135, Light Barbados.

2136, Frenchay  
West India.2137, Strong Hilling  
or Rice.

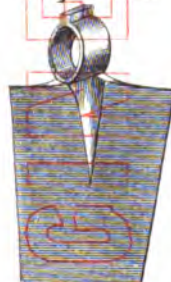
2139, Columbia.

2140, Boston or  
Canada.2143, Twisted Neck  
Louisiana  
Half Bright.

2144, German Neck.

2145, Spanish Ribbed  
Hoc Alder.

2146, Brazil.

2147, Spanish or  
Valparaiso.

2148, Ring'd Eyed.



2151, Portuguese.

2149, Ring'd Eyed  
Square Shouldered.2150, Bent Rice  
or Coffee.

2152, American Planters.



Duo-  
count.

No.	SPADES AND SHOVELS.													
	No.	000	00	0	1	2	3	4	5	6	7	8		
2156	Garden Spades, Crutch Handles .....	24/0	26/0	28/0	30/0	32/0	34/0	36/0	38/0	40/0	42/0	44/0	per doz.	
2157	Ditto, ditto, Hammered ..	30/0	32/0	34/0	36/0	38/0	40/0	42/0	44/0	46/0	..	..	..	
2158	Square Ballast Shovels, Crutch Handles ..	24/0	26/0	28/0	30/0	32/0	34/0	36/0	38/0	40/0	42/0	44/0	..	
2159	Square or Flat Shovels, ditto ..	24/0	26/0	28/0	30/0	32/0	34/0	37/0	40/0	43/0	46/0	49/0	..	
2160	Square Coal Shovels, ditto ..	..	..	..	..	..	..	40/0	42/0	44/0	46/0	48/0	..	
2161	Round Mouth Shovel, ditto ..	..	..	30/0	32/0	34/0	36/0	38/0	40/0	42/0	44/0	46/0	..	
2162	Ditto Treaded Spade, ditto ..	..	..	..	38/0	40/0	42/0	44/0	46/0	..	..	..	..	
2163	Grafting Tool .....	..	..	..	38/0	40/0	42/0	44/0	46/0	48/0	..	..	..	
2164	Box Handle Ladies' Spades .....	..	..	22/0	24/0	26/0	28/0	..	..	..	..	..	..	
2165	Toy Spades, Crutch Handles .....	..	..	19/0	20/0	22/0	24/0	26/0	28/0	30/0	..	..	..	
2166	Cheshire Spades and Clay Spades, Crutch Handles .....	..	..	..	..	46/0	48/0	50/0	54/0	..	..	..	..	
2167	Norfolk Spades, Bright .....	..	..	..	..	46/0	48/0	50/0	52/0	54/0	..	..	..	
2168	Ditto ditto, Black .....	..	..	..	..	..	44/0	46/0	48/0	50/0	..	..	..	
2169	Round Mouth Railway or Gravel Shovels ..	..	..	..	32/0	34/0	36/0	38/0	40/0	42/0	44/0	46/0	..	
2170	Coke Scoop .....	..	..	..	68/0	72/0	76/0	..	..	..	..	..	..	
2171	Stoking Shovels, 5d. per lb.													

	No.	1	2	3	4	5	6	7		
		4½ by 3½	5 by 4	5½ by 4½	6 by 5	6½ by 5½	6 by 4	6½ by 4½	inches.	
		15	16½	16	16½	17	18	20	inches.	
2172	Draining Tool, or Spit ..	38/0	40/0	42/0	44/0	46/0	48/0	48/0	per doz.	
2173	Socket Spades .....	46/0	48/0	50/0	52/0	54/0	56/0	..	..	
2174	Socket Shovels .....	46/0	48/0	50/0	52/0	54/0	56/0	..	..	
2175	Square Mouth Socket Miners' Shovels, 6d. per lb.									
2176	Round Mouth ditto ditto, 6d. ..	..	..	..	..	..	..	..	..	
2177	Hay Spades, well Steeled and Ground, 10d. ..	..	..	..	..	..	..	..	..	
2178	Paring Spades, ditto ditto, 10d. ..	..	..	..	..	..	..	..	..	
2179	Locomotive Engine Firing Shovels, with Sockets and Crutch Handles, 10 by 18 inches.									
							14	15	16	17   inch broad.
2180	Round Mouth Manure, Coal, and Salt Shovels, and Socket Round Mouth Bridgewater Coal Shovels .....	42/   44/   46/   48/   per doz.								
		No.   0   1   2   3   4								
	Best Cast Steel Shovels and Spades .....	45/0	47/0	49/0	52/0	55/0	per doz.			
	Round-Nosed Cast Steel Shovels ..	..	55/0	58/0	..	..	..			

Bright, 5/0 per dozen extra.

N.B.—Goods made from the Best Scrap Iron, all sizes, 3/6 per dozen extra, gross.

Hay Spades made to Order.

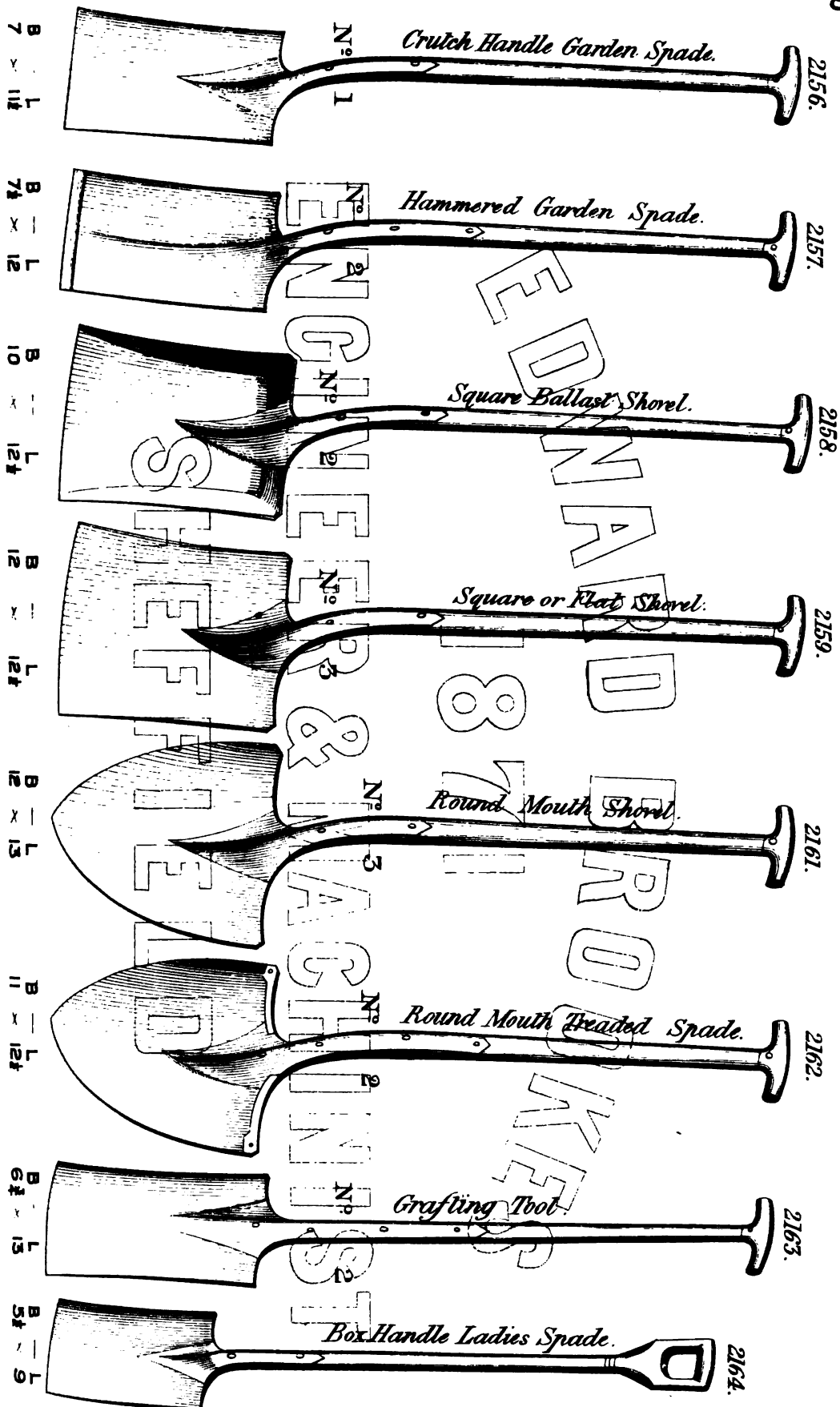
EXTRAS ON SPADES AND SHOVELS.—Open Handles, 3/6; Treaded Shovels, 3/6; Hammered, 6/6; Ribbed, 10/0; Ground, 3/6; Steel Shoulders, 5/0; one Double Strap, 3/6; extra Rivet in Strap, 3/6; Rivet in Eye, 3/6; Strap over Crutch, 3/6 extra, gross.

DRAINING TOOLS MADE TO ORDER.

SIZES OF SPADES AND SHOVELS.

Ballast or Common Shovels .....	No. 2, 10 in. by 12½ in., and vary ½ in. per size.		
Moulders' Shovels .....	No. 1, 9½ in. by 11 in., ditto ditto.		
Plain Bright and Skipton Shovels .....	No. 2, 11 in. by 12 in.		
Ditto ditto .....	No. 4, 13 in. by 13½ in.		
Ditto ditto .....	No. 5, 14 in. by 14 in.		
Ditto ditto .....	No. 6, 14 in. by 15 in.		
Ditto ditto .....	No. 7, 16 in. by 14 in.		
Yorkshire Coal Shovels .....	No. 6, 15 in. by 13½ in.		
Ditto ditto .....	No. 7, 15½ in. by 14 in.		
Round-Nosed ditto .....	No. 4, 13 in. by 13½ in., vary ½ in. per size.		
Ditto Railway Shovels .....	No. 4, 12½ in. by 13½ in., ditto ditto.		
Lancashire Round-Nosed Spades .....	No. 3, 11½ in. by 13 in., ditto ditto.		
Garden Spades .....	No. 2, 7½ in. 12 in., ditto ditto.		
Cheshire or Marling Spades .....	No. 2, 8 in. by 11½ in., ditto ditto.		
	Top. Bottom. Lowe.		
Clay Spades .....	No. 1, 6½ in. 7 in. 12½ in.		
Draining Tools .....	No. 4, 6 in. 4½ in. 17 or 18 in.		
Toy Spades .....	No. 1, 4½ in. by 7½ in., vary ½ in. per size.		
	Top. Bottom. Lowe.		
Norfolk Spade Shovels .....	No. 4, 8½ in. 7 in. 12 in., vary ½ in. per size.		
Norfolk Black and Bright Spades .....	No. 4, 8 in. 7 in. 12 in., ditto ditto.		
Norfolk Digging Shovels .....	No. 4, 9½ in. 9½ in. 12 in., ditto ditto.		
Locomotive Shovels .....	10 in. 10½ in. 11 in., ditto ditto.		
Hay Spades .....	No. 1, 8½ in. by 10 in., vary ½ in. per size.		
Paring Spades, 13½ in. across, when finished.			



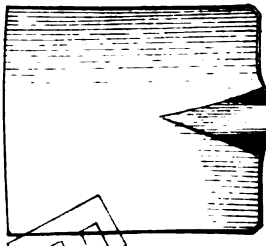




*Square Mouth  
Socket Miners.*

2175.

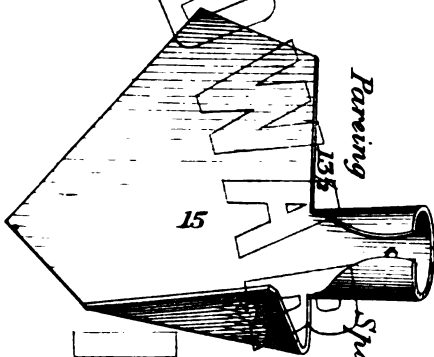
Nº 3



B = 10  
L = 12

*Paring*

2178.



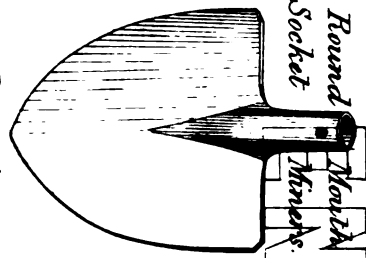
*Spade*

15

*Round Mouth  
Socket Miners.*

2176.

Nº 2



B = 11  
L = 12

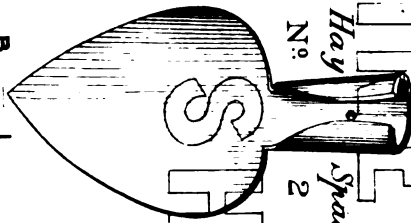
*Hay*

2177

*Spade*

Nº

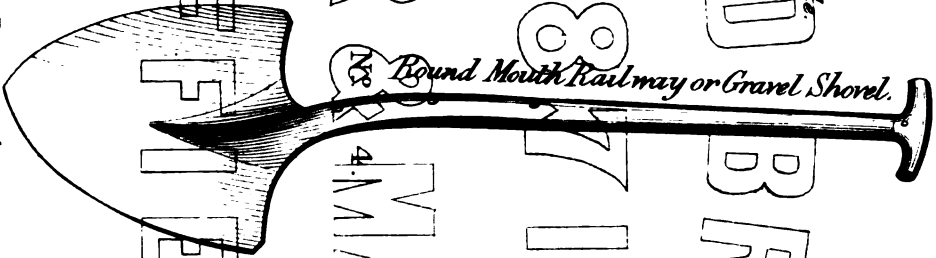
2



B = 8 1/2  
L = 12

*Round Mouth Railway or Gravel Shovel.*

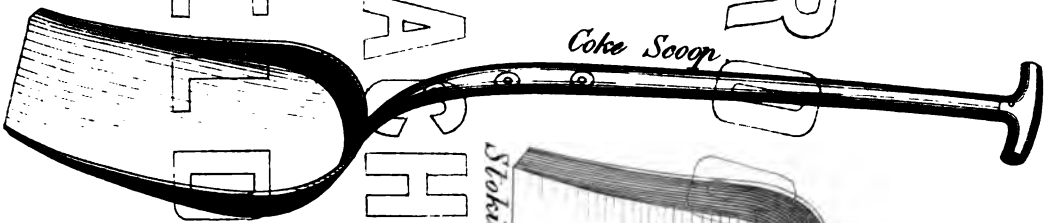
2169.



B = 12  
L = 13 1/2

*Coke Scoop*

2170.



T = 14 1/2  
B = 11  
L = 18

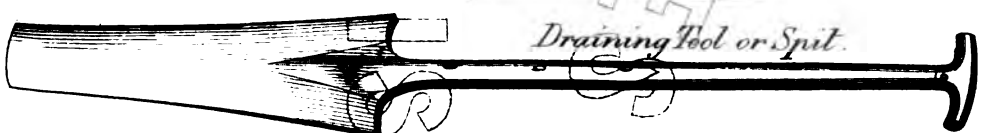
*Steeking Shovel.*

2171.



*Draining Tool or Spit.*

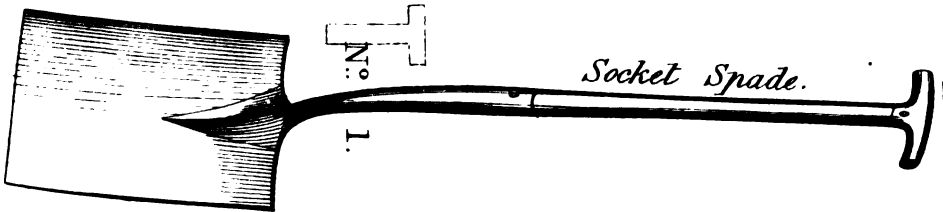
2172.



T = 6  
B = 4  
L = 18

*Socket Spade.*

2173.



B = 8  
L = 11 1/2

## THE ILLUSTRATED SHEFFIELD LIST.

DIS-  
COUNT.

## CONTENTS AND PRICES OF GENTLEMEN'S TOOL CHESTS.

- A.—7/0 each.—Hand Saw, Hammer, Mallet, Pincers, Brad Awl, Gimblet, Chisel, Gouge, Turnscrew, etc.
- B.—8/6 each.—Hand Saw, Hammer, Mallet, Pincers, Gimblet, Brad Awl, Chisel, Gouge, Turnscrew, Rule, etc.
- C.—10/0 each.—Hand Saw, Hammer, Mallet, Pincers, Chisel, Gouge, File, Square, Brad Awl, Gimblet, Marking Awl, Punch, Turnscrew, Rule, etc.
- No. 000.—10/9 each.—Hand Saw, Hammer, Mallet, Pincers, Brad Awl, Gimblet, Chisel, Gouge, Turnscrew, Furniture, etc.
- No. 00.—13/0 each.—Hand Saw, Hammer, Mallet, Pincers, Two Gimblets, Two Brad Awls, Chisel, Gouge, Turnscrew, File, Rule, Furniture, etc.
- No. 0.—17/6 each.—Hand Saw, Hammer, Mallet, Rule, Pincers, Two Gimblets, Two Brad Awls, Chisel, Gouge, File, Marking Awl, Punch, Turnscrew, Square, Compasses, Furniture, etc.
- No. 1.—22/6 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Two Gimblets, Two Brad Awls, Chisel, Gouge, Three Files, Oil Stone, Marking Awl, Punch, Turnscrew, Spokeshave, Square, Claw Wrench, Furniture, etc.
- No. 2.—28/0 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Three Gimblets, Three Brad Awls, Two Chisels, One Gouge, Three Files, Oil Stone, Marking Awl, Punch, Turnscrew, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Furniture, etc.
- No. 3.—35/6 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Three Gimblets, Three Brad Awls, Three Chisels, Two Gouges, Three Files, Oil Stone, Marking Awl, Punch, Two Turnscrews, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Plane, Furniture, etc.
- No. 4.—45/6 each.—Hand Saw, Hatchet, Hammer, Mallet, Rule, Pincers, Four Gimblets, Four Brad Awls, Four Chisels, Two Gouges, Three Files, Oil Stone, Marking Awl, Punch, Two Turnscrews, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Plane, Marking Gauge, Glue Pot and Brush, Furniture, etc.
- No. 5.—57/6 each.—Hand Saw, Axe, Hammer, Mallet, Rule, Pincers, Five Gimblets, Five Brad Awls, Five Chisels, Three Gouges, Four Files, Oil Stone, Marking Awl, Punch, Two Turnscrews, Spokeshave, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Plane, Marking Gauge, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Furniture, etc.
- No. 6.—68/0 each.—Two Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimblets, Six Brad Awls, Six Chisels, Four Gouges, Four Files, Oil Stone, Marking Awl, Two Punches, Three Turnscrews, Two Spokeshaves, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Marking Gauge, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Furniture, etc.
- No. 7.—80/0 each.—Three Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimblets, Six Brad Awls, Six Chisels, Four Gouges, Four Files, Oil Stone, Marking Awl, Two Punches, Three Turnscrews, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Two Gouges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Furniture, etc.
- No. 8.—92/6 each.—Three Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimblets, Six Brad Awls, Six Chisels, Four Gouges, Four Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrews, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two Pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Chalk Line Reel, Furniture, etc.
- No. 9.—114/6 each.—Three Saws, Axe, Two Hammers, Mallet, Rule, Pincers, Six Gimblets, Six Brad Awls, Six Chisels, Four Gouges, Five Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrews, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two Pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Chalk Line Reel, Two Mortice Chisels, Coach Wrench, Furniture, etc.
- No. 10.—136/0 each.—Three Saws, Axe, Three Hammers, Mallet, Rule, Pincers, Six Gimblets, Six Brad Awls, Eight Chisels, Four Gouges, Six Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrews, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two Pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Coach Wrench, Bevil, Chalk Line Reel, Brace, with 12 Bits, Cutting Nippers, Two Mortice Chisels, Furniture, etc.
- No. 11.—172/0 each.—Three Saws, Axe, Three Hammers, Mallet, Rule, Pincers, Nine Gimblets, Nine Brad Awls, Nine Chisels, Four Gouges, Six Files, Oil Stone, Marking Awl, Three Punches, Three Turnscrews, Bed Key, Hand Vice, Two Spokeshaves, Square, Claw Wrench, Two Pairs Pliers, Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punch, Scraper, Bevil, Coach Wrench, Chalk Line Reel, Brace, with 18 Bits, Cutting Nippers, Two Mortice Chisels, Saw Set, Spring Dividers, Bench Vice, Furniture, etc.
- No. 12.—216/0 each.—Three Saws, Axe, Four Hammers, Two Mallets, Rule, Pincers, Twelve Gimblets, Twelve Brad Awls, Twelve Chisels, Six Gouges, Nine Files, Oil Stone, Marking Awl, Three Punches, Four Turnscrews, Bed Key, Hand Vice, Two Spokeshaves, Two Plated Squares, Claw Wrench, Two Pairs Pliers, Two Pairs Compasses, Lock Saw, Smooth Plane, Jack Plane, Three Gauges, Glue Pot and Brush, Drawing Knife, Cutting Punches, Scraper, Bevil, Chalk Line Reel, Brace, with 24 Bits, Anvil and Beck Iron, Saw Set, Cutting Nippers, Nipper Pliers, Hand Shears, for cutting Metal, etc., Spring Dividers, Coach Wrench, Cast Steel Chipping Chisel, Spring Oil Can (Press Bottom), Three Mortice Chisels, Three Socket Chisels, Bench Vice, Turning Saw and Frame, Furniture, etc.









## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

**EMIGRANTS' TOOL CHESTS,****FITTED UP COMPLETE WITH TOOLS OF WARRANTED QUALITY.****No. 1.—£7 14s. 0d. each.****CONTAINS**

Best Axe	Five Cast Steel Firmer	Spokeshave	Six Brad Awls
Best Carpenters' Adze	Chisels	Two London Turnscrows	Carpenters' Mallet
Pick Axe	Three Cast Steel Firmer	Marking Gauge	Boxed Whetstone
Carpenters' Hand Saw	Gouges	Improved Brass Slide	Marking Awl
Ditto Tenon Saw	Three Best Mortice	Mortice Gauge	Brad Punch
Ditto Compass Saw	Chisels, Handled	Best Brace, with 18 Bits	Compasses
Jack Plane	Three Socket Chisels,	Bench and Roofing	Carpenters' Pincers
Smooth Plane	Handled	Hammer	Glue Pot and Brush
1 Pair Grooving Planes	Plated Square	Three Files, assorted	Pliers
Rabbit Plane	Three Augers, Handled	Six Cast Steel Gimblets	Chalk Line Reel

**No. 2.—£11 11s. 0d. each.****CONTAINS**

Best Axe	Moving Filister Plane	Spokeshave	Two Bench Hammers
Best Carpenters' Adze	Three London Turn-	Drawing Knife	Roofing Hammer
Pick Axe	screws	Four Augers, Handled	Compasses
Carpenters' Hand Saw	Six Cast Steel Firmer	Marking Gauge	Five Files, assorted
Ditto Tenon Saw	Chisels	Brass Slide Mortice	Carpenters' Pincers
Ditto Compass Saw	Four Cast Steel Firmer	Gauge	Boxed Whetstone
Jack Plane	Gouges	Glue Pot and Brush	Carpenters' Mallet
Smooth Plane	Three Best Mortice	Pliers	Spring Oil Can
Trying Plane	Chisels, Handled	Best Brace, with 24 Bits	Marking Awl
1 pair Grooving Planes	Four Socket Chisels,	Six Cast Steel Gimblets	Brad Punch
Rabbit Plane	Handled	Six Brad Awls	Chalk Line Reel
Bead Plane.	Plated Square	Coach Wrench	

**No. 3.—£15 7s. 6d. each.****CONTAINS**

Best Axe	Twelve Cast Steel Firmer	Marking Gauge	Cutting Nippers
Best Carpenters' Adze	Chisels	Cutting Gauge	Bellhangers' Pliers
Pick Axe	Six Cast Steel Firmer	Best Brace, with 30 Bits	Two Pair Compasses
Carpenters' Hand Saw	Gouges	Eight Cast Steel Gimblets	Two Pair Pliers
Ditto Tenon Saw	Three Mortice Chisels	Eight Brad Awls	Chalk Line Reel
Ditto Compass Saw	Five Socket Chisels	Turning Saw and Frame	Glue Pot and Brush
Jack Plane	Two Plated Squares	Saw Pad and Saw	Carpenters' Mallet
Smooth Plane	Two Spokeshaves	Coach Wrenches	Boxed Whetstone
Trying Plane	Drawing Knife	Two Bench Hammers	Spring Oil Can
2 pair Grooving Planes	Six Augers, Handled	Roofing Hammer	Marking Awl
Rabbit Plane	Three London Turn-	Seven Files, assorted	Brad Punch
Plough, with Six Bits	screws	Two Pairs Carpenters'	Hand Vice
Moving Filister	Improved Brass Slide	Pincers	Bench Vice
Two Bead Planes	Mortice Gauge		



## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
<b>PLATERS' AND TINMEN'S SHEARS.</b>		
		7   8   9   10   11   12   13   14   inches.
313A	Platers' Hand Shears .....	18/0   19/0   20/0   24/0   28/0   32/0   36/0   40/0   dozen.
313B	Ditto ditto, Bent Blade..	28/0   28/0   30/0   33/0   36/0   42/0   ..   ..   „
313C	Lancashire Hand Shears .....	22/6   26/0   33/0   40/0   50/0   60/0   70/0   80/0   „
313D	Goldsmiths' Shears .....	11/0   14/0   18/0   22/0   26/0   30/0   34/0   38/0   „
313E	Bookbinders' Bench Shears .....	1/3 per lb.
313F	Tinmen's Stock or Braziers' Shears .....	1/2 per lb.
		24   26   28   30   inches on the cut.
313G	Card or Pasteboard Shears .....	60/0   66/0   73/0   80/0   per pair.
		8   9   10   11   12   13   14   inches.
313H	Brushmakers' Shears .....	12/0   14/0   16/0   18/0   20/0   22/0   24/0   per pair.
313I	Brushmakers' Bench Shears .....	..   ..   20/0   23/0   27/0   ..   ..   „
313K	Brazil Tinmen's Shears .....	4/6   5/6   6/6   7/6   8/6   9/6   10/6   „
		12   13   14   15   16   17   inches.
313L	Scotch Hand Shears .....	7/6   8/0   8/6   9/0   9/6   10/6   each.
		9   9½   10   10½   inches.
313M	Trasquillar or Mule Shears .....	8/0   9/6   12/0   15/0   per dozen.
313N	Spanish Shears .....	8/0   9/6   12/0   15/0   „
<b>TIMBER SCRIBES.</b>		
313P	With Box Handle.... 30/0   Beech Handle.... 21/0   Without Handles.... 16/6   per dozen.	

## THE ILLUSTRATED SHEFFIELD LIST.

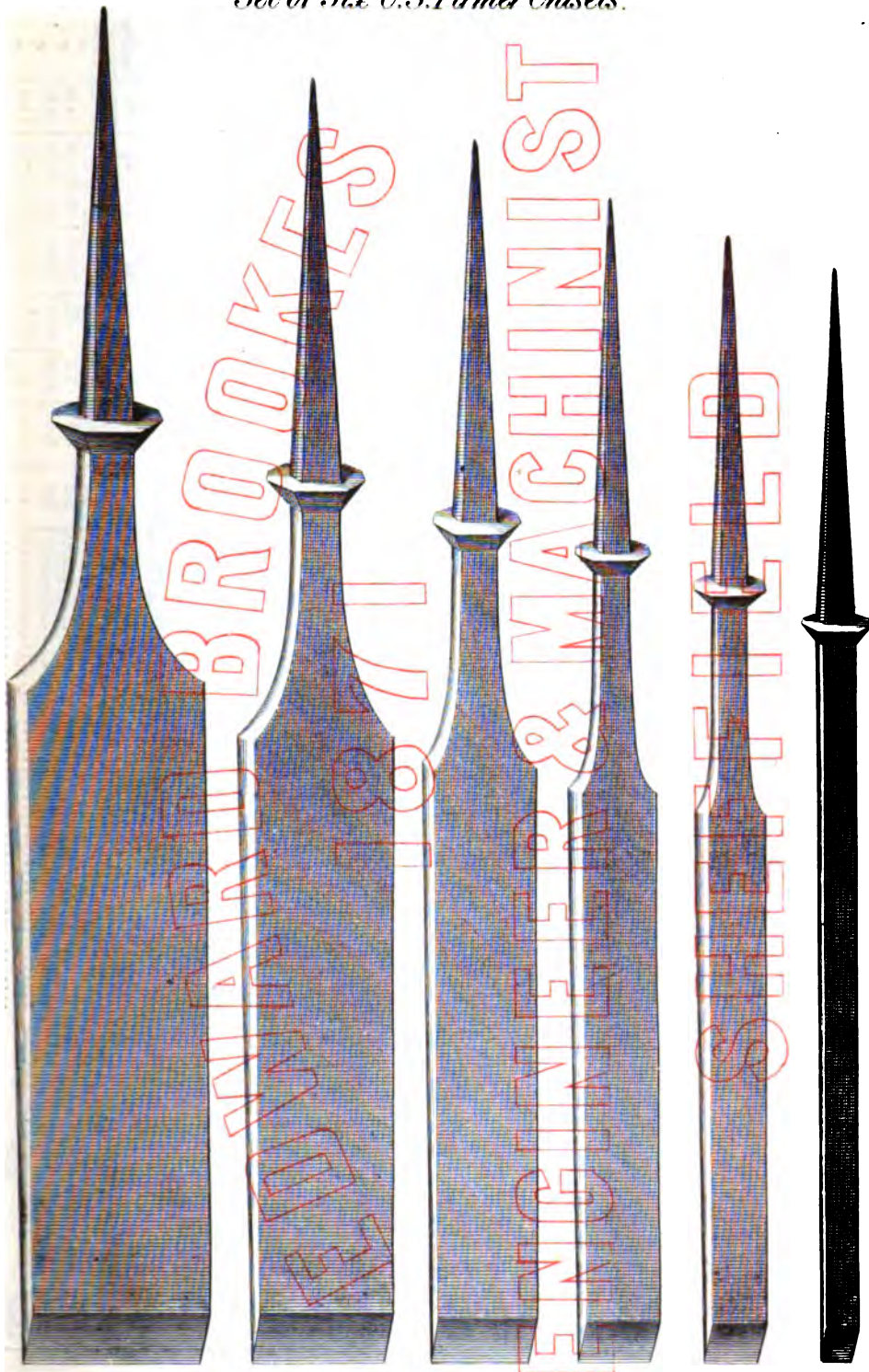
## LIST OF PRICES OF EDGE TOOLS.

## LIGHT EDGE TOOLS.

## CAST STEEL FIRMER CHISELS.

	11-16	13-16	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80	81-82	83-84	85-86	87-88	89-90	91-92	93-94	95-96	97-98	99-100	101-102	103-104	105-106	107-108	109-110	111-112	113-114	115-116	117-118	119-120	121-122	123-124	125-126	127-128	129-130	131-132	133-134	135-136	137-138	139-140	141-142	143-144	145-146	147-148	149-150	151-152	153-154	155-156	157-158	159-160	161-162	163-164	165-166	167-168	169-170	171-172	173-174	175-176	177-178	179-180	181-182	183-184	185-186	187-188	189-190	191-192	193-194	195-196	197-198	199-200	201-202	203-204	205-206	207-208	209-210	211-212	213-214	215-216	217-218	219-220	221-222	223-224	225-226	227-228	229-230	231-232	233-234	235-236	237-238	239-240	241-242	243-244	245-246	247-248	249-250	251-252	253-254	255-256	257-258	259-260	261-262	263-264	265-266	267-268	269-270	271-272	273-274	275-276	277-278	279-280	281-282	283-284	285-286	287-288	289-290	291-292	293-294	295-296	297-298	299-300	301-302	303-304	305-306	307-308	309-310	311-312	313-314	315-316	317-318	319-320	321-322	323-324	325-326	327-328	329-330	331-332	333-334	335-336	337-338	339-340	341-342	343-344	345-346	347-348	349-350	351-352	353-354	355-356	357-358	359-360	361-362	363-364	365-366	367-368	369-370	371-372	373-374	375-376	377-378	379-380	381-382	383-384	385-386	387-388	389-390	391-392	393-394	395-396	397-398	399-400	401-402	403-404	405-406	407-408	409-410	411-412	413-414	415-416	417-418	419-420	421-422	423-424	425-426	427-428	429-430	431-432	433-434	435-436	437-438	439-440	441-442	443-444	445-446	447-448	449-450	451-452	453-454	455-456	457-458	459-460	461-462	463-464	465-466	467-468	469-470	471-472	473-474	475-476	477-478	479-480	481-482	483-484	485-486	487-488	489-490	491-492	493-494	495-496	497-498	499-500	501-502	503-504	505-506	507-508	509-510	511-512	513-514	515-516	517-518	519-520	521-522	523-524	525-526	527-528	529-530	531-532	533-534	535-536	537-538	539-540	541-542	543-544	545-546	547-548	549-550	551-552	553-554	555-556	557-558	559-560	561-562	563-564	565-566	567-568	569-570	571-572	573-574	575-576	577-578	579-580	581-582	583-584	585-586	587-588	589-590	591-592	593-594	595-596	597-598	599-600	601-602	603-604	605-606	607-608	609-610	611-612	613-614	615-616	617-618	619-620	621-622	623-624	625-626	627-628	629-630	631-632	633-634	635-636	637-638	639-640	641-642	643-644	645-646	647-648	649-650	651-652	653-654	655-656	657-658	659-660	661-662	663-664	665-666	667-668	669-670	671-672	673-674	675-676	677-678	679-680	681-682	683-684	685-686	687-688	689-690	691-692	693-694	695-696	697-698	699-700	701-702	703-704	705-706	707-708	709-710	711-712	713-714	715-716	717-718	719-720	721-722	723-724	725-726	727-728	729-730	731-732	733-734	735-736	737-738	739-740	741-742	743-744	745-746	747-748	749-750	751-752	753-754	755-756	757-758	759-760	761-762	763-764	765-766	767-768	769-770	771-772	773-774	775-776	777-778	779-780	781-782	783-784	785-786	787-788	789-790	791-792	793-794	795-796	797-798	799-800	801-802	803-804	805-806	807-808	809-810	811-812	813-814	815-816	817-818	819-820	821-822	823-824	825-826	827-828	829-830	831-832	833-834	835-836	837-838	839-840	841-842	843-844	845-846	847-848	849-850	851-852	853-854	855-856	857-858	859-860	861-862	863-864	865-866	867-868	869-870	871-872	873-874	875-876	877-878	879-880	881-882	883-884	885-886	887-888	889-890	891-892	893-894	895-896	897-898	899-900	901-902	903-904	905-906	907-908	909-910	911-912	913-914	915-916	917-918	919-920	921-922	923-924	925-926	927-928	929-930	931-932	933-934	935-936	937-938	939-940	941-942	943-944	945-946	947-948	949-950	951-952	953-954	955-956	957-958	959-960	961-962	963-964	965-966	967-968	969-970	971-972	973-974	975-976	977-978	979-980	981-982	983-984	985-986	987-988	989-990	991-992	993-994	995-996	997-998	999-1000	1001-1002	1003-1004	1005-1006	1007-1008	1009-1010	1011-1012	1013-1014	1015-1016	1017-1018	1019-1020	1021-1022	1023-1024	1025-1026	1027-1028	1029-1030	1031-1032	1033-1034	1035-1036	1037-1038	1039-1040	1041-1042	1043-1044	1045-1046	1047-1048	1049-1050	1051-1052	1053-1054	1055-1056	1057-1058	1059-1060	1061-1062	1063-1064	1065-1066	1067-1068	1069-1070	1071-1072	1073-1074	1075-1076	1077-1078	1079-1080	1081-1082	1083-1084	1085-1086	1087-1088	1089-1090	1091-1092	1093-1094	1095-1096	1097-1098	1099-1100	1101-1102	1103-1104	1105-1106	1107-1108	1109-1110	1111-1112	1113-1114	1115-1116	1117-1118	1119-1120	1121-1122	1123-1124	1125-1126	1127-1128	1129-1130	1131-1132	1133-1134	1135-1136	1137-1138	1139-1140	1141-1142	1143-1144	1145-1146	1147-1148	1149-1150	1151-1152	1153-1154	1155-1156	1157-1158	1159-1160	1161-1162	1163-1164	1165-1166	1167-1168	1169-1170	1171-1172	1173-1174	1175-1176	1177-1178	1179-1180	1181-1182	1183-1184	1185-1186	1187-1188	1189-1190	1191-1192	1193-1194	1195-1196	1197-1198	1199-1200	1201-1202	1203-1204	1205-1206	1207-1208	1209-1210	1211-1212	1213-1214	1215-1216	1217-1218	1219-1220	1221-1222	1223-1224	1225-1226	1227-1228	1229-1230	1231-1232	1233-1234	1235-1236	1237-1238	1239-1240	1241-1242	1243-1244	1245-1246	1247-1248	1249-1250	1251-1252	1253-1254	1255-1256	1257-1258	1259-1260	1261-1262	1263-1264	1265-1266	1267-1268	1269-1270	1271-1272	1273-1274	1275-1276	1277-1278	1279-1280	1281-1282	1283-1284	1285-1286	1287-1288	1289-1290	1291-1292	1293-1294	1295-1296	1297-1298	1299-1300	1301-1302	1303-1304	1305-1306	1307-1308	1309-1310	1311-1312	1313-1314	1315-1316	1317-1318	1319-1320	1321-1322	1323-1324	1325-1326	1327-1328	1329-1330	1331-1332	1333-1334	1335-1336	1337-1338	1339-1340	1341-1342	1343-1344	1345-1346	1347-1348	1349-1350	1351-1352	1353-1354	1355-1356	1357-1358	1359-1360	1361-1362	1363-1364	1365-1366	1367-1368	1369-1370	1371-1372	1373-1374	1375-1376	1377-1378	1379-1380	1381-1382	1383-1384	1385-1386	1387-1388	1389-1390	1391-1392	1393-1394	1395-1396	1397-1398	1399-1400	1401-1402	1403-1404	1405-1406	1407-1408	1409-1410	1411-1412	1413-1414	1415-1416	1417-1418	1419-1420	1421-1422	1423-1424	1425-1426	1427-1428	1429-1430	1431-1432	1433-1434	1435-1436	1437-1438	1439-1440	1441-1442	1443-1444	1445-1446	1447-1448	1449-1450	1451-1452	1453-1454	1455-1456	1457-1458	1459-1460	1461-1462	1463-1464	1465-1466	1467-1468	1469-1470	1471-1472	1473-1474	1475-1476	1477-1478	1479-1480	1481-1482	1483-1484	1485-1486	1487-1488	1489-1490	1491-1492	1493-1494	1495-1496	1497-1498	1499-1500	1501-1502	1503-1504	1505-1506	1507-1508	1509-1510	1511-1512	1513-1514	1515-1516	1517-1518	1519-1520	1521-1522	1523-1524	1525-1526	1527-1528	1529-1530	1531-1532	1533-1534	1535-1536	1537-1538	1539-1540	1541-1542	1543-1544	1545-1546	1547-1548	1549-1550	1551-1552	1553-1554	1555-1556	1557-1558	1559-1560	1561-1562	1563-1564	1565-1566	1567-1568	1569-1570	1571-1572	1573-1574	1575-1576	1577-1578	1579-1580	1581-1582	1583-1584	1585-1586	1587-1588	1589-1590	1591-1592	1593-1594	1595-1596	1597-1598	1599-1600	1601-1602	1603-1604	1605-1606	1607-1608	1609-1610	1611-1612	1613-1614	1615-1616	1617-1618	1619-1620	1621-1622	1623-1624	1625-1626	1627-1628	1629-1630	1631-1632	1633-1634	1635-1636	1637-1638	1639-1640	1641-1642	1643-1644	1645-1646	1647-1648	1649-1650	1651-1652	1653-1654	1655-1656	1657-1658	1659-1660	1661-1662	1663-1664	1665-1666	1667-1668	1669-1670	1671-1672	1673-1674	1675-1676	1677-1678	1679-1680	1681-1682	1683-1684	1685-1686	1687-1688	1689-1690	1691-1692	1693-1694	1695-1696	1697-1698	1699-1700	1701-1702	1703-1704	1705-1706	1707-1708	1709-1710	1711-1712	1713-1714	1715-1716	1717-1718	1719-1720	1721-1722	1723-1724	1725-1726	1727-1728	1729-1730	1731-1732	1733-1734	1735-1736	1737-1738	1739-1740	1741-1742	1743-1744	1745-1746	1747-1748	1749-1750	1751-1752	1753-1754	1755-1756	1757-1758	1759-1760	1761-1762	1763-1764	1765-1766	1767-1768	1769-1770	1771-1772	1773-1774	1775-1776	1777-1778	1779-1780	1781-1782	1783-1784	1785-1786	1787-1788	1789-1790	1791-1792	1793-1794	1795-1796	1797-1798	1799-1800	1801-1802	1803-1804	1805-1806	1807-1808	1809-1810	1811-1812	1813-1814	1815-1816	1817-1818	1819-1820	1821-1822	1823-1824	1825-1826	1827-1828	1829-1830	1831-1832	1833-1834	1835-1836	1837-1838	1839-1840	1841-1842	1843-1844	1845-1846	1847-1848	1849-1850	1851-1852	1853-1854	1855-1856	1857-1858	1859-1860	1861-1862	1863-1864	1865-1866	1867-1868	1869-1870	1871-1872	1873-1874	1875-1876	1877-1878	1879-1880	1881-1882	1883-1884	1885-1886	1887-1888	1889-1890	1891-1892	1893-1894	1895-1896	1897-1898	1899-1900	1
--	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	---

*Set of Six C.S. Firmer Chisels.*



*314. Cast Steel Firmer Chisels.*

# LIST OF PRICES OF EDGE TOOLS:

## LIGHT EDGE TOOLS.

## CAST STEEL FIRMER CHISELS.

	1-16	3-16	5-16	7-16	9-16	11-16	13-16	15-16	17-16	19-16	21-16	23-16	25-16	27-16	29-16	31-16	inches.									
Cast Steel Firmer Chisels .....	3/6	3/8	3/9	3/10	4/0	4/2	4/4	4/6	5/2	5/6	6/0	7/0	8/9	9/9	10/9	12/13	13/9	15/13	16/9	18/0	22/9	23/9	26/6	34/6	42/6	per doz.
Ditto ditto Handled....	6/0	6/2	6/3	6/4	6/6	6/8	6/10	7/0	7/8	8/0	8/6	9/6	11/8	12/6	13/9	15/16	17/3	18/9	20/9	22/3	21/6	..	..	..	..	..
Ditto Improved Firmer Chisels .....	6/0	6/0	6/3	6/3	6/6	6/9	7/0	7/3	7/8	8/0	9/0	10/0	11/8	12/6	13/9	14/9	16/1	18/6	20/0	22/6	24/0	30/6	34/0	..	..	..
Ditto Strong Firmer Chisels .....	6/0	6/0	6/3	6/6	6/9	6/9	6/9	7/6	7/8	8/8	9/8	11/8	12/6	13/6	14/6	16/6	17/18	18/6	20/0	22/6	24/0	30/0	36/0	..	..	..

**CAST STEEL FIRMER CHISELS, ASSORTED IN SETS.**

Cast Steel Firmer Chisels:—	$\frac{1}{8}$ to 1		$1\frac{1}{4}$	2		inch.		$\frac{1}{2}$ to 1		$1\frac{1}{4}$	2		inch.		$\frac{1}{2}$ to 1		$1\frac{1}{4}$	2		inch.		per set.	
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Six to the Set	2/7	3/3	3/11	4/3	4/3	4/5	4/5	4/5	2/9	3/3	4/0	4/3	4/6	4/6	4/0	4/9	5/0	4/0	4/9	5/0	4/0	4/9	5/0
Nine to the Set	4/0	4/6	5/3	6/0	6/3	6/0	6/3	6/3	4/0	4/6	5/3	6/3	6/3	4/0	4/6	5/3	6/3	4/0	4/6	5/3	6/3	6/3	6/3
Twelve to the Set	3/10	4/6	5/3	6/3	7/3	8/3	8/3	8/3	5/1	6/0	6/6	7/6	8/6	5/1	6/0	6/6	7/6	5/1	6/0	6/6	7/6	8/6	8/6

**COMMON FIRMER CHISELS.**

[illegible]

**Cast Steel Chisels, Handled, with Brass Ferrules, 1/0 per dozen extra.**

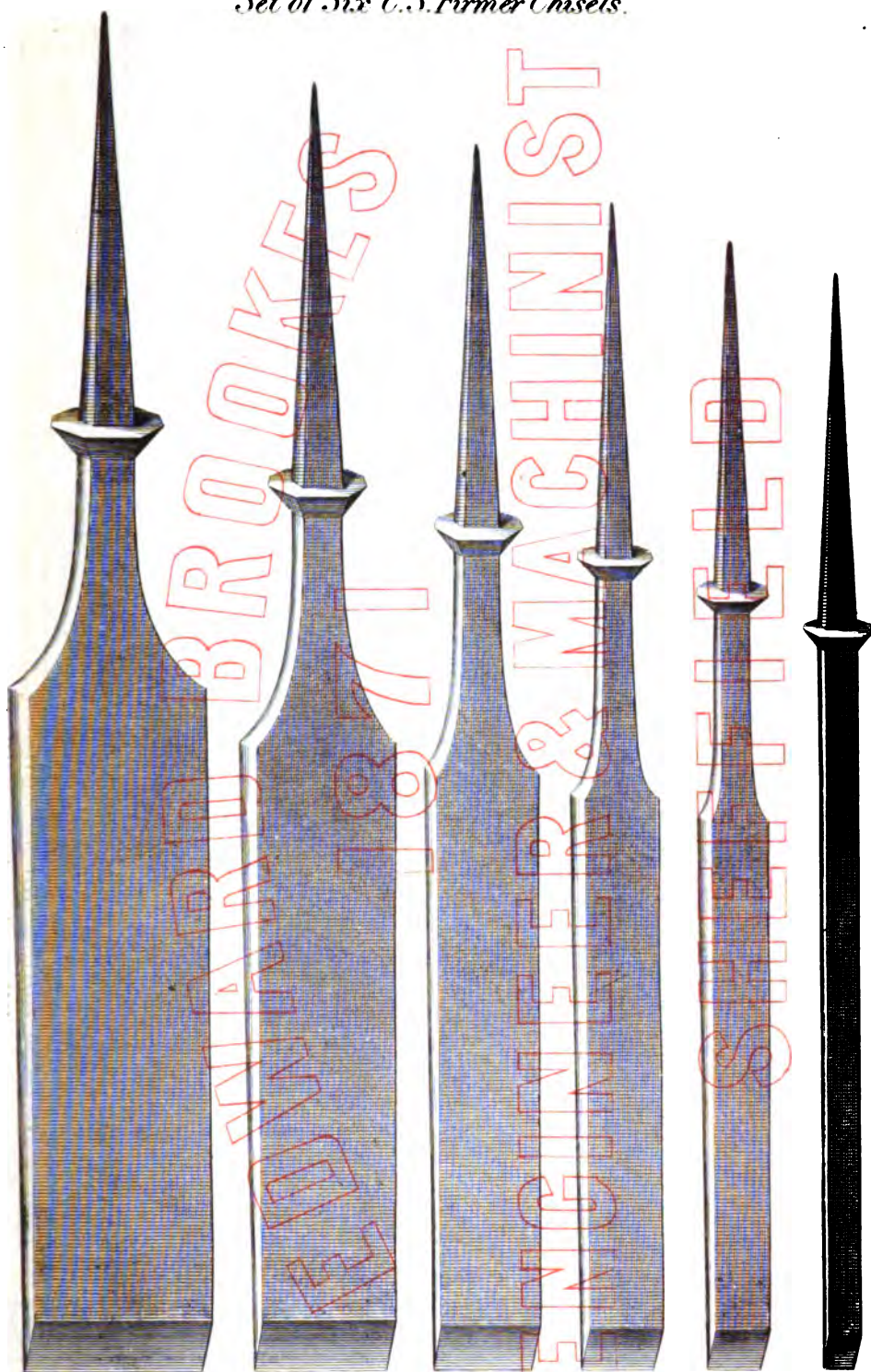
	3	3½	4	5	6	7	8	9	inches.
Cast Steel Single Oval Burnisher .....	6/8	6/9	7/0	8/0	10/0	12/0	14/0	16/0	dosen.
Ditto ditto best Polished .....	6/8	6/9	7/0	8/0	10/0	12/0	14/0	16/0	dosen.
Ditto Double Burnishers, 10/6 per dozen.	6/8	6/9	7/0	11/0	13/0	16/0	18/0	21/0	"

## SCRAPERS.

	3	3½	4	4½	5	6	7	8	9	inches.
Cast Steel Three-square Plain Scrapers.....	5/0	6/6	6/0	6/6	7/6	8/6	9/6	12/0	16/0	dozen.
Ditto ditto Fitted ditto .....	15/6	16/0	17/0	17/0	17/8	18/6	23/0	28/0	34/0	"



*Set of Six C.S. Firmer Chisels.*



*314. Cast Steel Firmer Chisels.*

## THE ILLUSTRATED SHEFFIELD LIST.

## LIGHT EDGE TOOLS.—Continued.

## CAST STEEL FIRMER GOUGES.

	1-16	1/8	3-16	1/4	5-16	3/8	7-16	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/4	2 1/2	inches.	
Cast Steel Firmer Gouges....	4/3	4/3	4/6	4/8	4/9	5/10	5/8	5/10	6/6	7/10	8/10	10/10	11/3	12/6	14/10	15/6	18/0	19/9	22/0	27/31	6 1/2	set.
Do. do. Handled	6/9	6/9	7/0	7/2	7/3	7/6	7/9	8/0	8/4	9/0	9/6	10/6	12/9	14/0	15/6	17/0	19/0	21/6	23/3	25/6	..	..
Do. Improved Firmer Gouges	6/9	6/9	7/0	7/2	7/3	7/6	7/9	8/0	8/10	9/6	10/6	11/0	14/0	15/3	16/6	18/0	20/6	23/0	25/9	27/0	35/33	6
Do. Strong Firmer Gouges ..	..	5/6	6/0	6/4	6/6	6/8	7/0	7/9	8/6	9/6	10/6	13/0	15/9	17/6	18/9	20/6	25/0	28/6	30/0	..	..	..

Cast Steel Firmer Gouges. Cannelled inside to 1 inch, 3d. per dozen; to 1 1/4 inch, 6d. per dozen extra.

Cast Steel Firmer Gouges, Cannelled inside to 1 inch, 3d. per dozen; to 1 1/4 inch, 6d. per dozen extra.

## CAST STEEL FIRMER GOUGES, ASSORTED IN SETS.

	1/2 to 1	1 1/4	1 1/2	2	inches.	1/2 to 1	1 1/4	1 1/2	2	inches.	1/2 to 1 1/4	1 1/2	2	inches.
Cast Steel Firmer Gouges:—	2/9	3/9	4/0	4/9	5/6	3/0	4/0	4/6	5/0	5/6	4/6	5/0	5/9	per set.
Six to the Set .....	4/10	5/3	5/9	6/9	8/3	..	4/10	5/6	6/0	7/0	8/6	7/6	8/9	..
Nine to the Set .....	5/10	6/9	7/3	8/3	9/9	..	6/0	7/0	8/0	9/3	10/0	10/6	11/0	..
Twelve to the Set .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Cast Steel Quick or Fluting Gouges, to 1 inch, 1/6 per dozen extra; all above, 2/6 per dozen extra.

## COMMON FIRMER GOUGES.

	1/2	3/4	1	1 1/4	1 1/2	2	inches.
Short Firmer Gouges .....	4/1	4/2	4/3	4/3	4/9	5/0	5/6
Long ditto ditto .....	5/6	5/6	5/6	5/9	6/0	6/6	7/3

## PRINT CUTTERS, ENGRAVERS, AND CARVING TOOLS.

Veining Tools, 9/0 per set. Straight and Bent Black Parting Tools, assorted to 1/2, 9/0; 9-16, 9/4; 1/2, 9/6; 3/4, 10/6 per dozen. Double-bent or Entering Chisels, 6/6 per dozen. Double-bent or Entering Gouges, 7/6 per dozen. Unshouldered Print Cutters' Chisels, 2/6 per dozen; ditto Flat and Middle Sweep Gouges, 3/3 per dozen. Quick Sweep ditto, 3/9 per dozen; ditto Blades, 3/6 per dozen. Print Cutters' Flat Shank Dog Legs, 2/6 per dozen; ditto Round Shank, 3/0 per dozen. Black Carving Chisels, 4/10 per set. Black Carving Gouges, 5/10 per set. Black Skew Carving Chisels, 4/10 per set. Straight Fluting Gouges, 7/0; Bent ditto, 7/6 per dozen. Square and Lozenge Gravers, 20/0 per gross. Scrapers ditto, 20/0 per gross. Spit Stickers, 24/0 per gross. Knife Gravers, 24/0 per gross. Cast Steel Striking Knives, 6/0 per dozen. Cast Steel Brad Punches, 2/6 per dozen. Cast Steel London Screws, 6/6 per dozen.

## BEST ROUND-SHOULDERED YELLOW PRINT CUTTERS' TOOLS.

Best Round-shouldered Yellow Print Cutters' Chisels, 4/0 per set; ditto Flat, Middle, and Scribing Print Cutters' Gouges, 5/3 per set; ditto Quick Sweep, 5/9 per set; ditto Parting Tools, 6/0 per set; ditto Double-bent or Entering Chisels, 5/0 per set; ditto Double-bent or Entering Gouges, 6/6 per set. Print Cutters' Tools, sorted in sets of 36, 15/0; ditto of 48, 20/0.

## CAST STEEL SPOKESHAVE IRONS.

	To	2 1/4	3	3 1/4	4	4 1/4	5	5 1/4	6	inches.
Cast Steel Joiners' Spokeshave Irons .....	5/3	6/9	7/0	8/0	8/0	8/0	9/0	10/6	13/0	dozen.
Ditto ditto London Pattern .....	6/3	7/0	8/0	8/0	8/0	8/0	9/0	10/6	13/0	..
Ditto ditto London Pattern .....	6/0	6/9	7/6	8/0	8/0	8/0	9/0	10/6	13/0	..
Ditto ditto London Pattern .....	8/0	9/0	10/6	10/6	10/6	10/6	11/6	12/6	14/0	..
BEST COOPERS' SHAVE IRONS .....	..	..	..	..	..	..	..	..	..	..
Lined ditto .....	..	..	..	..	..	..	..	..	..	..

Warranted Cast Steel Bookbinders' Knives .....

6	6 1/4	6	6 1/4	7	inches.
24/0	20/0	30/0	30/0	42/0	dozen

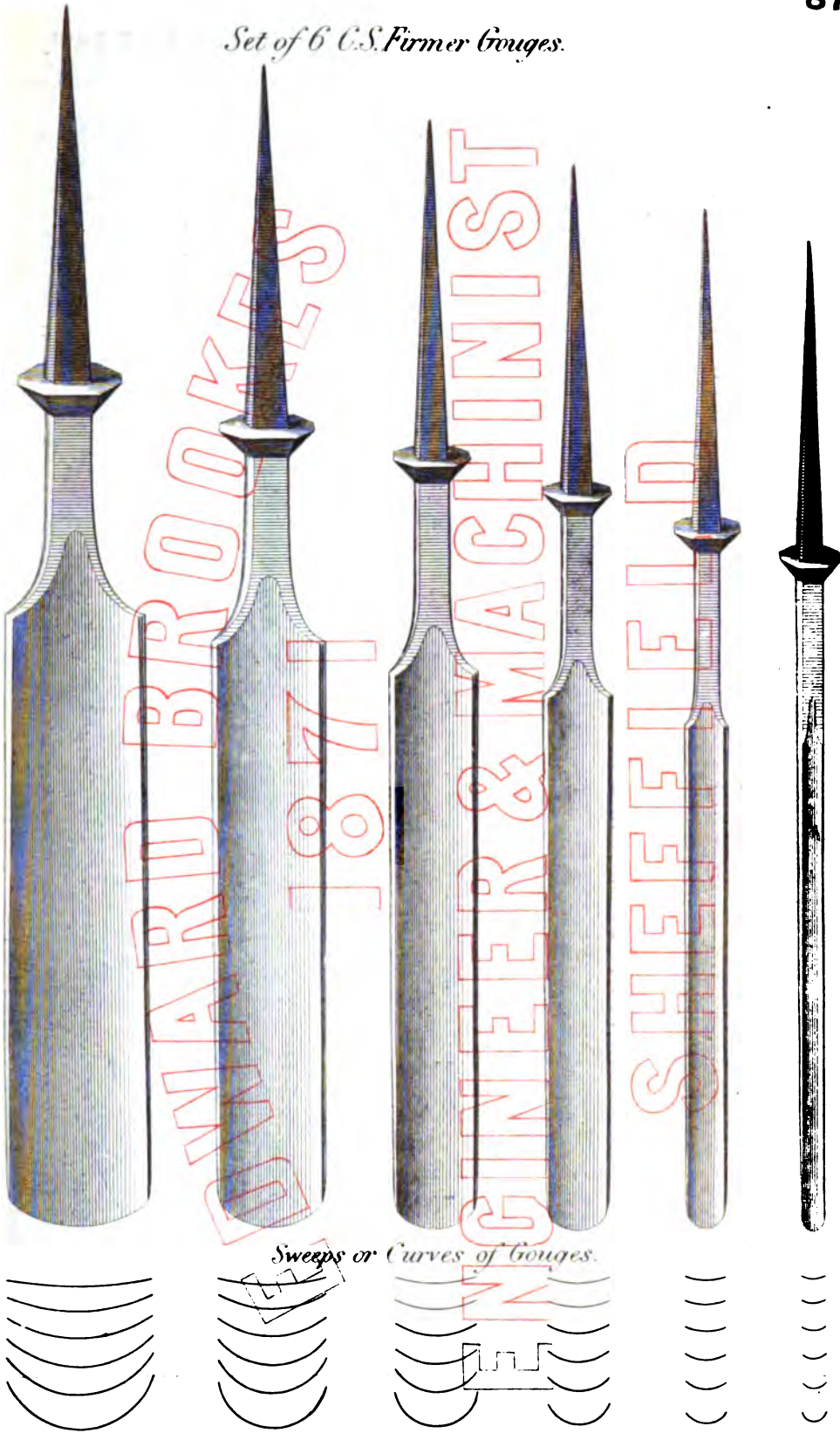
Draw Borers .....

8	9	10	inches.
12/0	13/0	14/0	dozen.

*Set of 6 C.S. Firmer Gouges.*

*317. Cast Steel Firmer Gouges.*

A  
B  
C  
D  
E  
F



*Sweeps or Curves of Gouges.*

LIGHT EDGE TOOLS.—Continued.

No.	Dis- count.	No.	Description	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	inches.									
320		320	Cast Steel Coachmakers' Chisels .....	5/8	6/0	6/6	7/0	8/0	9/0	10/0	11/3	13/0	14/0	17/0	19/0	23/0	28/6	34/6	40/6	dozen.
321		321	ditto 10 inches long .....	..	9/0	10/6	12/6	13/6	15/6	17/0	19/0	..	..	..	..	..	..	..	..	..
322		322	ditto Gouges.....	8/8	9/0	9/6	10/0	11/0	12/0	13/0	14/3	16/0	17/0	20/0	22/0	27/0	32/6	38/6	44/6	..
323		323	Long Thin Paring Chisels .....	6/6	7/0	7/3	7/6	8/6	9/6	10/6	12/6	15/0	17/0	19/0	21/0	24/0	29/0	35/0	41/0	..
324		324	ditto Improved .....	9/6	10/0	10/3	10/9	11/6	12/6	13/6	15/6	18/6	20/6	22/6	23/6	28/0	33/6	40/0	47/0	..
325		325	ditto Gouges.....	10/6	11/0	11/3	11/9	12/6	13/6	14/6	16/6	20/0	22/0	24/0	26/0	31/0	36/0	42/0	48/0	..
326		326	Millwrights' Chisels .....	..	7/9	8/9	10/0	11/6	13/9	15/6	18/3	21/0	24/0	27/0	28/9	33/9	41/6	50/6	62/0	..
327		327	ditto 10 inches long .....	..	10/9	12/3	14/6	16/6	17/0	19/0	22/3	25/0	26/6	27/6	31/0	36/0	42/0	..	..	..
328		328	ditto 12 ditto .....	..	12/9	14/3	16/6	18/6	20/6	23/0	27/0	29/0	30/6	32/0	36/6	40/0	52/0	..	..	..
329		329	ditto 14 ditto .....	..	16/6	18/0	20/0	22/0	25/0	27/0	31/6	33/0	34/6	37/0	40/0	..	..	..	..	..
330		330	Millwrights' Gouges.....	..	11/9	12/9	14/0	15/6	17/9	19/6	22/3	26/0	29/0	32/0	33/9	40/9	48/6	57/6	69/0	..

Cast Steel Coachmakers' and Millwrights' Chisels, with extra strong Bolsters, 3/0 per dozen extra.

CAST STEEL TURNING CHISELS AND GOUGES.

	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	inches.
331																							
Cast Steel Turning Chisels	5/0	5/6	6/3	6/9	7/6	8/6	9/9	10/9	12/0	14/0	15/6	17/6	19/0	20/6	22/6	25/6	32/6	40/6	dozen.				
332	Ditto	Improved																					
333	Ditto	7/0	7/6	8/3	8/9	9/6	10/6	11/9	12/9	15/0	17/0	18/6	20/6	23/0	24/6	26/6	29/6	36/6	44/6				
334	Ditto	6/0	6/0	7/0	8/0	9/0	11/0	12/0	14/3	16/9	19/0	21/6	24/6	26/0	29/6	32/0	36/0	41/0	49/0				
335	Ditto	8/0	8/0	9/0	10/0	11/0	13/0	14/0	16/3	19/9	22/0	24/6	27/6	30/6	33/6	36/0	40/0	45/0	63/0				
336	Ditto	Long Strong Turning Chisels																					
337	Ditto	..	8/6	9/0	9/6	10/6	12/0	14/0	16/0	18/0	20/0	23/0	26/0	29/0	33/0	36/0	40/0						
338	Ditto	..	13/6	15/0	17/0	19/0	22/0	25/0	28/0	31/0	34/0	38/0	42/0	46/0	48/0	50/0	52/0						
339	Ditto	10/6	12/0	13/0	15/6	..	..	..	..	..	..	..	..	..	..	..	..						

CAST STEEL TURNING CHISELS AND GOUGES, ASSORTED IN SETS.

331	Cast Steel Turning Chisels:—																		
	Six to the Set.....																		
	Nine to the Set.....																		
	Twelve to the Set.....																		
333	Cast Steel Turning Gouges:—																		
	Six to the Set.....																		
	Nine to the Set.....																		
	Twelve to the Set.....																		



## LIGHT EDGE TOOLS.—Continued.

No.	Dis- count.		1-16	$\frac{1}{8}$	3-16	$\frac{1}{4}$	inch.
338		Cast Steel Cross Point Chisels .....	5/	5/8	6/	6/6	dozen.
339		Cast Steel Gunstockers' Chisels .....	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	inch.
			18/	20/	22/	26/	dozen.
340		Cast Steel Gunstockers' Gouges .....	8	$\frac{1}{4}$	$\frac{1}{2}$	1	inch.
			9/	9/6	10/6	12/	dozen.
341		Cast Steel Screw Tools, sorted, 20/0 per dozen pair.					
342		Long Cast Steel Screw Tools, 22/0 "					
343		Fancy Turning Tools, assorted, 6/6 per dozen.					
344		Inside ditto 7/0 "					
346		Cast Steel German Shape Turning Chisels, the same price as Cast Steel Long Strong Turning Chisels.					
			$\frac{1}{4}$	1	1 $\frac{1}{2}$	1 $\frac{3}{4}$	inch.
346		Cast Steel German Parting Tools .....	20/	22/	24/	31/	dozen.
			27/	31/	36/		dozen.

## SOCKET CHISELS AND GOUGES.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
German Steel Socket Chisels.....	8/0	8/6	9/0	9/6	10/0	10/6	11/0	11/9	12/9	13/0	13/6	14/3	15/0	15/6	16/0	16/6	17/0	17/9	18/6	19/0	19/6	20/0	20/6	21/0	21/6	22/0	22/6	23/0	23/6	24/0	24/6	25/0	25/6	26/0	26/6	27/0	27/6	28/0	28/6	29/0	29/6	30/0	30/6	31/0	31/6	32/0	32/6	33/0	33/6	34/0	34/6	35/0	35/6	36/0	36/6	37/0	37/6	38/0	38/6	39/0	39/6	40/0	40/6	41/0	41/6	42/0	42/6	43/0	43/6	44/0	44/6	45/0	45/6	46/0	46/6	47/0	47/6	48/0	48/6	49/0	49/6	50/0	50/6	51/0	51/6	52/0	52/6	53/0	53/6	54/0	54/6	55/0	55/6	56/0	56/6	57/0	57/6	58/0	58/6	59/0	59/6	60/0	60/6	61/0	61/6	62/0	62/6	63/0	63/6	64/0	64/6	65/0	65/6	66/0	66/6	67/0	67/6	68/0	68/6	69/0	69/6	70/0	70/6	71/0	71/6	72/0	72/6	73/0	73/6	74/0	74/6	75/0	75/6	76/0	76/6	77/0	77/6	78/0	78/6	79/0	79/6	80/0	80/6	81/0	81/6	82/0	82/6	83/0	83/6	84/0	84/6	85/0	85/6	86/0	86/6	87/0	87/6	88/0	88/6	89/0	89/6	90/0	90/6	91/0	91/6	92/0	92/6	93/0	93/6	94/0	94/6	95/0	95/6	96/0	96/6	97/0	97/6	98/0	98/6	99/0	99/6	100/0	100/6	101/0	101/6	102/0	102/6	103/0	103/6	104/0	104/6	105/0	105/6	106/0	106/6	107/0	107/6	108/0	108/6	109/0	109/6	110/0	110/6	111/0	111/6	112/0	112/6	113/0	113/6	114/0	114/6	115/0	115/6	116/0	116/6	117/0	117/6	118/0	118/6	119/0	119/6	120/0	120/6	121/0	121/6	122/0	122/6	123/0	123/6	124/0	124/6	125/0	125/6	126/0	126/6	127/0	127/6	128/0	128/6	129/0	129/6	130/0	130/6	131/0	131/6	132/0	132/6	133/0	133/6	134/0	134/6	135/0	135/6	136/0	136/6	137/0	137/6	138/0	138/6	139/0	139/6	140/0	140/6	141/0	141/6	142/0	142/6	143/0	143/6	144/0	144/6	145/0	145/6	146/0	146/6	147/0	147/6	148/0	148/6	149/0	149/6	150/0	150/6	151/0	151/6	152/0	152/6	153/0	153/6	154/0	154/6	155/0	155/6	156/0	156/6	157/0	157/6	158/0	158/6	159/0	159/6	160/0	160/6	161/0	161/6	162/0	162/6	163/0	163/6	164/0	164/6	165/0	165/6	166/0	166/6	167/0	167/6	168/0	168/6	169/0	169/6	170/0	170/6	171/0	171/6	172/0	172/6	173/0	173/6	174/0	174/6	175/0	175/6	176/0	176/6	177/0	177/6	178/0	178/6	179/0	179/6	180/0	180/6	181/0	181/6	182/0	182/6	183/0	183/6	184/0	184/6	185/0	185/6	186/0	186/6	187/0	187/6	188/0	188/6	189/0	189/6	190/0	190/6	191/0	191/6	192/0	192/6	193/0	193/6	194/0	194/6	195/0	195/6	196/0	196/6	197/0	197/6	198/0	198/6	199/0	199/6	200/0	200/6	201/0	201/6	202/0	202/6	203/0	203/6	204/0	204/6	205/0	205/6	206/0	206/6	207/0	207/6	208/0	208/6	209/0	209/6	210/0	210/6	211/0	211/6	212/0	212/6	213/0	213/6	214/0	214/6	215/0	215/6	216/0	216/6	217/0	217/6	218/0	218/6	219/0	219/6	220/0	220/6	221/0	221/6	222/0	222/6	223/0	223/6	224/0	224/6	225/0	225/6	226/0	226/6	227/0	227/6	228/0	228/6	229/0	229/6	230/0	230/6	231/0	231/6	232/0	232/6	233/0	233/6	234/0	234/6	235/0	235/6	236/0	236/6	237/0	237/6	238/0	238/6	239/0	239/6	240/0	240/6	241/0	241/6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

## CAST STEEL SOCKET CHISELS AND GOUGES.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Cast Steel Black Socket Chisels	10/6	11/0	12/0	13/0	13/6	13/9	14/6	16/3	17/3	19/3	20/9	22/9	24/9	25/6	26/9	28/9	30/0	32/6	34/6	36/0	37/6	39/0	40/6	42/0	43/6	45/0	46/6	48/0	49/6	51/0	52/6	54/0	55/6	57/0	58/6	60/0	61/6	63/0	64/6	66/0	67/6	69/0	70/6	72/0	73/6	75/0	76/6	78/0	79/6	81/0	82/6	84/0	85/6	87/0	88/6	90/0	91/6	93/0	94/6	96/0	97/6	99/0	100/6	101/6	102/6	103/6	104/6	105/6	106/6	107/6	108/6	109/6	110/6	111/6	112/6	113/6	114/6	115/6	116/6	117/6	118/6	119/6	120/6	121/6	122/6	123/6	124/6	125/6	126/6	127/6	128/6	129/6	130/6	131/6	132/6	133/6	134/6	135/6	136/6	137/6	138/6	139/6	140/6	141/6	142/6	143/6	144/6	145/6	146/6	147/6	148/6	149/6	150/6	151/6	152/6	153/6	154/6	155/6	156/6	157/6	158/6	159/6	160/6	161/6	162/6	163/6	164/6	165/6	166/6	167/6	168/6	169/6	170/6	171/6	172/6	173/6	174/6	175/6	176/6	177/6	178/6	179/6	180/6	181/6	182/6	183/6	184/6	185/6	186/6	187/6	188/6	189/6	190/6	191/6	192/6	193/6	194/6	195/6	196/6	197/6	198/6	199/6	200/6	201/6	202/6	203/6	204/6	205/6	206/6	207/6	208/6	209/6	210/6	211/6	212/6	213/6	214/6	215/6	216/6	217/6	218/6	219/6	220/6	221/6	222/6	223/6	224/6	225/6	226/6	227/6	228/6	229/6	230/6	231/6	232/6	233/6	234/6	235/6	236/6	237/6	238/6	239/6	240/6	241/6	242/6	243/6	244/6	245/6	246/6	247/6	248/6	249/6	250/6	251/6	252/6	253/6	254/6	255/6	256/6	257/6	258/6	259/6	260/6	261/6	262/6	263/6	264/6	265/6	266/6	267/6	268/6	269/6	270/6	271/6	272/6	273/6	274/6	275/6	276/6	277/6	278/6	279/6	280/6	281/6	282/6	283/6	284/6	285/6	286/6	287/6	288/6	289/6	290/6	291/6	292/6	293/6	294/6	295/6	296/6	297/6	298/6	299/6	300/6	301/6	302/6	303/6	304/6	305/6	306/6	307/6	308/6	309/6	310/6	311/6	312/6	313/6	314/6	315/6	316/6	317/6	318/6	319/6	320/6	321/6	322/6	323/6	324/6	325/6	326/6	327/6	328/6	329/6	330/6	331/6	332/6	333/6	334/6	335/6	336/6	337/6	338/6	339/6	340/6	341/6	342/6	343/6	344/6	345/6	346/6	347/6	348/6	349/6	350/6	351/6	352/6	353/6	354/6	355/6	356/6	357/6	358/6	359/6	360/6	361/6	362/6	363/6	364/6	365/6	366/6	367/6	368/6	369/6	370/6	371/6	372/6	373/6	374/6	375/6	376/6	377/6	378/6	379/6	380/6	381/6	382/6	383/6	384/6	385/6	386/6	387/6	388/6	389/6	390/6	391/6	392/6	393/6	394/6	395/6	396/6	397/6	398/6	399/6	400/6	401/6	402/6	403/6	404/6	405/6	406/6	407/6	408/6	409/6	410/6	411/6	412/6	413/6	414/6	415/6	416/6	417/6	418/6	419/6	420/6	421/6	422/6	423/6	424/6	425/6	426/6	427/6	428/6	429/6	430/6	431/6	432/6	433/6	434/6	435/6	436/6	437/6	438/6	439/6	440/6	441/6	442/6	443/6	444/6	445/6	446/6	447/6	448/6	449/6	450/6	451/6	452/6	453/6	454/6	455/6	456/6	457/6	458/6	459/6	460/6	461/6	462/6	463/6	464/6	465/6	466/6	467/6	468/6	469/6	470/6	471/6	472/6	473/6	474/6	475/6	476/6	477/6	478/6	479/6	480/6	481/6	482/6	483/6	484/6	485/6	486/6	487/6	488/6	489/6	490/6	491/6	492/6	493/6	494/6	495/6	496/6	497/6	498/6	499/6	500/6	501/6	502/6	503/6	504/6	505/6	506/6	507/6	508/6	509/6	510/6	511/6	512/6	513/6	514/6	515/6	516/6	517/6	518/6	519/6	520/6	521/6	522/6	523/6	524/6	525/6	526/6	527/6	528/6	529/6	530/6	531/6	532/6	533/6	534/6	535/6	536/6	537/6	538/6	539/6	540/6	541/6	542/6	543/6	544/6	545/6	546/6	547/6	548/6	549/6	550/6	551/6	552/6	553/6	554/6	555/6	556/6	557/6	558/6	559/6	560/6	561/6	562/6	563/6	564/6	565/6	566/6	567/6	568/6	569/6	570/6	571/6	572/6	573/6	574/6	575/6	576/6	577/6	578/6	579/6	580/6	581/6	582/6	583/6	584/6	585/6	586/6	587/6	588/6	589/6	590/6	591/6	592/6	593/6	594/6	595/6	596/6	597/6	598/6	599/6	600/6	601/6	602/6	603/6	604/6	605/6	606/6	607/6	608/6	609/6	610/6	611/6	612/6	613/6	614/6	615/6	616/6	617/6	618/6	619/6	620/6	621/6	622/6	623/6	624/6	625/6	626/6	627/6	628/6	629/6	630/6	631/6	632/6	633/6	634/6	635/6	636/6	637/6	638/6	639/6	640/6	641/6	642/6	643/6	644/6	645/6	646/6	647/6	648/6	649/6	650/6	651/6	652/6	653/6	654/6	655/6	656/6	657/6	658/6	659/6	660/6	661/6	662/6	663/6	664/6	665/6	666/6	667/6	668/6	669/6	670/6	671/6	672/6	673/6	674/6	675/6	676/6	677/6	678/6	679/6	680/6	681/6	682/6	683/6	684/6	685/6	686/6	687/6	688/6	689/6	690/6	691/6	692/6	693/6	694/6	695/6	696/6	697/6	698/6	699/6	700/6	701/6	702/6	703/6	704/6	705/6	706/6	707/6	708/6	709/6	710/6	711/6	712/6	713/6	714/6	715/6	716/6	717/6	718/6	719/6	720/6	721/6	722/6	723/6	724/6	725/6	726/6	727/6	728/6	729/6	730/6	731/6	732/6	733/6	734/6	735/6	736/6	737/6	738/6	739/6	740/6	741/6	742/6	743/6	744/6	745/6	746/6	747/6	748/6	749/6	750/6	751/6	752/6	753/6	754/6	755/6	756/6	757/6	758/6	759/6	760/6	761/6	762/6	763/6	764/6	765/6	766/6	767/6	768/6	769/6	770/6	771/6	772/6	773/6	774/6	775/6	776/6	777/6	778/6	779/6	780/6	781/6	782/6	783/6	784/6	785/6	786/6	787/6	788/6	789/6	790/6	791/6	792/6	793/6	794/6	795/6	796/6	797/6	798/6	799/6	800/6	801/6	802/6	803/6	804/6	805/6	806/6	807/6	808/6	809/6	810/6	811/6	812/6	813/6	814/6	815/6	816/6	817/6	818/6	819/6	820/6	821/6	822/6	823/6	824/6	825/6	826/6	827/6	828/6	829/6	830/6	831/6	832/6	833/6	834/6	835/6	836/6	837/6	838/6	839/6	840/6	841/6	842/6	843/6	844/6	845/6	846/6	847/6	848/6	849/6	850/6	851/6	852/6	853/6	854/6	855/6	856/6	857/6	858/6	859/6	860/6	861/6	862/6	863/6	864/6	865/6	866/6	867/6	868/6	869/6	870/6	871/6	872/6	873/6	874/6	875/6	876/6	877/6	878/6	879/6	880/6	881/6	882/6	883/6	884/6	885/6	886/6	887/6	888/6	889/6	890/6	891/6	892/6	893/6	894/6	895/6	896/6	897/6	898/6	899/6	900/6	901/6	902/6	903/6	904/6	905/6	906/6	907/6	908/6	909/6	910/6	911/6	912/6	913/6	914/6	915/6	916/6	917/6	918/6	919/6	920/6	921/6	922/6	923/6	924/6	925/6	926/6	927/6	928/6	929/6	930/6	931/6	932/6	933/6	934/6	935/6	936/6	937/6	938/6	939/6	940/6	941/6	942/6	943/6	944/6	945/6	946/6	947/6	948/6	949/6	950/6	951/6	952/6	953/6	954/6	955/6	956/6	957/6	958/6	959/6	960/6	961/6	962/6	963/6	964/6	965/6	966/6	967/6	968/6	969/6	970/6	971/6	972/6	973/6	974/6	975/6	976/6	977/6	978/6	979/6	980/6	981/6	982/6	983/6	984/6	985/6	986/6	987/6	988/6	989/6	990/6	991/6	992/6	993/6	994/6	995/6	996/6	997/6	998/6	999/6	1000/6
Ditto	14/6	15/0	16/0	17/0	17/6	17/9	18/6	20/3	21/3	25/3	26/9	28/9	30/0	32/6	34/6	36/0	37/6	39/0	40/6	42/0	43/6	45/0	46/6	48/0	49/6	51/0	52/6	54/0	55/6	57/0	58/6	60/0	61/6	63/0	64/6	66/0	67/6	69/0	70/6	72/0	73/6	75/0	76/6	78/0	79/6	81/0	82/6	84/0	85/6	87/0	88/6	90/0	91/6	93/0	94/6	96/0	97/6	99/0	100/6	101/6	102/6	103/6	104/6	105/6	106/6	107/6	108/6	109/6	110/6	111/6	112/6	113/6	114/6	115/6	116/6	117/6	118/6	119/6	120/6	121/6	122/6	123/6	124/6	125/6	126/6	127/6	128/6	129/6	130/6	131/6	132/6	133/6	134/6	135/6	136/6	137/6	138/6	139/6	140/6	141/6	142/6	143/6	144/6	145/6	146/6	147/6	148/6	149/6	150/6	151/6	152/6	153/6	154/6	155/6	156/6	157/6	158/6	159/6	160/6	161/6	162/6	163/6	164/6	165/6	166/6	167/6	168/6	169/6	170/6	171/6	172/6	173/6	174/6	175/6	176/6	177/6	178/6	179/6	180/6	181/6	182/6	183/6	184/6	185/6	186/6	187/6	188/6	189/6	190/6	191/6	192/6	193/6	194/6	195/6	196/6	197/6	198/6	199/6	200/6	201/6	202/6	203/6	204/6	205/6	206/6	207/6	208/6	209/6	210/6	211/6	212/6	213/6	214/6	215/6	216/6	217/6	218/6	219/6	220/6	221/6	222/6	223/6	224/6	225/6	226/6	227/6	228/6	229/6	230/6	231/6	232/6	233/6	234/6	235/6	236/6	237/6	238/6	239/6	240/6	241/6	242/6	243/6	244/6	245/6	246/6	247/6	248/6	249/6	250/6	251/6	252/6	253/6	254/6	255/6	256/6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

**All Socket Gouges Out-Steeled, 9d. per dozen extra.**

## THE ILLUSTRATED SHEFFIELD LIST.

## LIGHT EDGE TOOLS.—Continued.

## GERMAN STEEL SOCKET CHISELS, ASSORTED IN SETS.

	$\frac{1}{2}$ to $1\frac{1}{2}$	$1\frac{1}{2}$	2	inches. $\frac{1}{2}$ to $1\frac{1}{2}$	$1\frac{1}{2}$	2	inches.
Six to the Set.....	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	per set.	$\frac{5}{8}$	$\frac{5}{8}$	per set.
Nine to the Set.....	$\frac{7}{8}$	$\frac{8}{8}$	$\frac{8}{8}$	"	$\frac{8}{8}$	$\frac{8}{8}$	"
Twelve to the Set.....	$\frac{10}{8}$	$\frac{10}{8}$	$\frac{11}{8}$	"	$\frac{10}{8}$	$\frac{11}{8}$	"

## CAST STEEL SOCKET CHISELS, ASSORTED IN SETS.

	$\frac{1}{2}$ to $1\frac{1}{2}$	$1\frac{1}{2}$	2	inches. $\frac{1}{2}$ to $1\frac{1}{2}$	$1\frac{1}{2}$	2	inches.
Six to the Set.....	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	per set.	$\frac{7}{8}$	$\frac{8}{8}$	per set.
Nine to the Set.....	$\frac{9}{8}$	$\frac{10}{8}$	$\frac{11}{8}$	"	$\frac{10}{8}$	$\frac{11}{8}$	"
Twelve to the Set.....	$\frac{13}{8}$	$\frac{14}{8}$	$\frac{15}{8}$	"	$\frac{13}{8}$	$\frac{14}{8}$	"

## SHIP SLICES.

	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$3\frac{3}{4}$	4	inches.
Best Ship Slices, 18 inches long.....	$\frac{48}{8}$	$\frac{55}{8}$	$\frac{59}{8}$	$\frac{64}{8}$	$\frac{70}{8}$	dozen.
Ditto 20 ditto .....	..	..	$\frac{60}{8}$	$\frac{74}{8}$	$\frac{84}{8}$	"

## SOFT IRONS.

	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	inches.
Soft Moulding Irons.....	$\frac{2}{10}$	$\frac{2}{11}$	$\frac{3}{10}$	$\frac{3}{8}$	$\frac{3}{6}$	$\frac{3}{10}$	$\frac{4}{0}$	$\frac{4}{4}$	$\frac{5}{8}$	$\frac{6}{3}$	$\frac{6}{10}$	$\frac{7}{3}$	dozen.
Square Rabbit Irons.....	$\frac{3}{6}$	$\frac{3}{7}$	$\frac{3}{8}$	$\frac{3}{10}$	$\frac{4}{2}$	$\frac{4}{6}$	$\frac{4}{9}$	$\frac{5}{0}$	$\frac{5}{8}$	$\frac{6}{0}$	$\frac{6}{6}$	$\frac{7}{0}$	"
Skew ditto .....	$\frac{3}{9}$	$\frac{4}{0}$	$\frac{4}{2}$	$\frac{4}{5}$	$\frac{4}{10}$	$\frac{5}{0}$	$\frac{5}{4}$	$\frac{5}{6}$	$\frac{6}{9}$	$\frac{6}{6}$	$\frac{7}{3}$	$\frac{7}{9}$	"

Soft Moulding Irons, assorted to  $1\frac{1}{2}$  inch, 40/ per gross; Coachmakers' T Irons, 8/ per dozen; Patent Double Rabbit Irons, to  $1\frac{1}{2}$  inch, 12/6;  $1\frac{1}{4}$  inch, 13/6;  $1\frac{1}{8}$  inch, 15/ dozen; Cast Steel Patent Double Rabbit Irons,  $1\frac{1}{2}$  inch, 16/ per dozen; Common Bookbinders' Plough Knives, 16/6 per dozen; Best Cast Steel, 18/6 per dozen. Grooving Irons, assorted,  $1\frac{1}{2}$  to  $1\frac{1}{4}$ , 10/ per dozen pair; all  $1\frac{1}{2}$ , 12/; 2 inch, 16/; Hollows and Rounds, 9/ per dozen pair.

Dis-  
count.

Nos

376  
376377  
378  
379

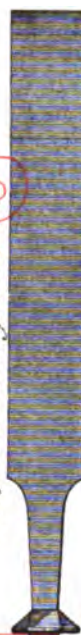
320, C. S. Couch Makers Chisel.



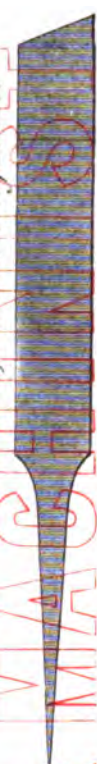
323, C. S. Long Thin Paring Chisel.



326, C. S. Millwrights Chisel.



331, C. S. Turning Chisel.



333, C. S. Turning Gouge.



377, Soft Moulding Iron.



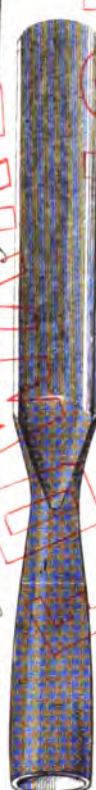
378, Square Rabble Iron.



372, Bright or Blued C. S. Socket Chisel.



373, Bright or Blued C. S. Socket Gouge.



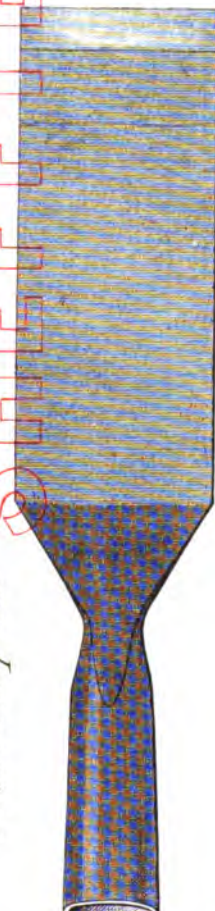
358, C. S. Socket Mortice Chisel.



367, C. S. Staking Chisel.



375, Best Ship Slice.



**LIGHT EDGE TOOLS.—Continued.**

No.

Dis-  
count.

LIGHT EDGE TOOLS.—Continued.

MORTICE CHISELS.

		$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	inch. per doz.
352	Common Mortice Chisels .....	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	26/9
353	Best Joiners' and Cabinet Mortice Chisels .....	$\frac{11}{8}$	$\frac{11}{8}$	$\frac{12}{8}$	$\frac{12}{8}$	$\frac{13}{8}$	$\frac{13}{8}$	$\frac{14}{9}$	$\frac{16}{10}$	$\frac{16}{10}$	$\frac{18}{9}$	$\frac{20}{3}$	$\frac{26}{0}$	$\frac{36}{0}$	$\frac{43}{9}$	"
354	Cast Steel ditto .....	$\frac{13}{8}$	$\frac{13}{8}$	$\frac{14}{0}$	$\frac{14}{6}$	$\frac{15}{0}$	$\frac{15}{6}$	$\frac{15}{6}$	$\frac{18}{0}$	$\frac{18}{0}$	$\frac{20}{0}$	$\frac{22}{0}$	$\frac{27}{0}$	$\frac{36}{0}$	$\frac{44}{0}$	"
355	Sash Mortice Chisels, Iron and Steel .....	$\frac{12}{8}$	$\frac{12}{6}$	$\frac{13}{0}$	$\frac{13}{6}$	$\frac{14}{3}$	$\frac{14}{3}$	$\frac{15}{9}$	$\frac{17}{0}$	$\frac{17}{0}$	$\frac{19}{6}$	$\frac{21}{3}$	$\frac{27}{0}$	$\frac{36}{0}$	$\frac{44}{8}$	"
356	Improved Sash Mortice Chisels, all Steel .....	..	..	..	$\frac{19}{0}$	$\frac{20}{6}$	$\frac{22}{0}$	$\frac{22}{0}$	$\frac{24}{0}$	$\frac{24}{0}$	$\frac{26}{0}$	..	..	..	..	"
357	Socket ditto .....	..	..	$\frac{10}{9}$	$\frac{10}{9}$	$\frac{11}{9}$	$\frac{13}{0}$	$\frac{13}{0}$	$\frac{15}{0}$	$\frac{15}{0}$	$\frac{16}{9}$	$\frac{19}{0}$	$\frac{22}{6}$	$\frac{29}{0}$	$\frac{37}{0}$	"
358	Cast Steel Socket .....	$\frac{14}{6}$	$\frac{14}{6}$	$\frac{15}{0}$	$\frac{15}{6}$	$\frac{16}{0}$	$\frac{16}{6}$	$\frac{16}{6}$	$\frac{18}{9}$	$\frac{18}{9}$	$\frac{20}{6}$	$\frac{22}{6}$	$\frac{28}{0}$	$\frac{37}{0}$	$\frac{45}{0}$	"
359	Lock ditto .....	..	..	..	..	..	..	..	$\frac{26}{0}$	$\frac{26}{0}$	$\frac{28}{0}$	$\frac{30}{0}$	..	..	..	"
360	Improved Lock ditto, Tang or Socket .....	..	..	..	..	..	..	..	$\frac{36}{0}$	$\frac{36}{0}$	$\frac{38}{0}$	$\frac{40}{0}$	..	..	..	"

Best Joiners' and Cabinet Mortice Chisels, per set of Eight, 9/9.

Common Mortice Chisels, per set of Six, 4/3; of Eight, 5/6.

Best Mortice Chisels, Handled, 4/6 per set of Eight; 6/9 per Dozen extra.

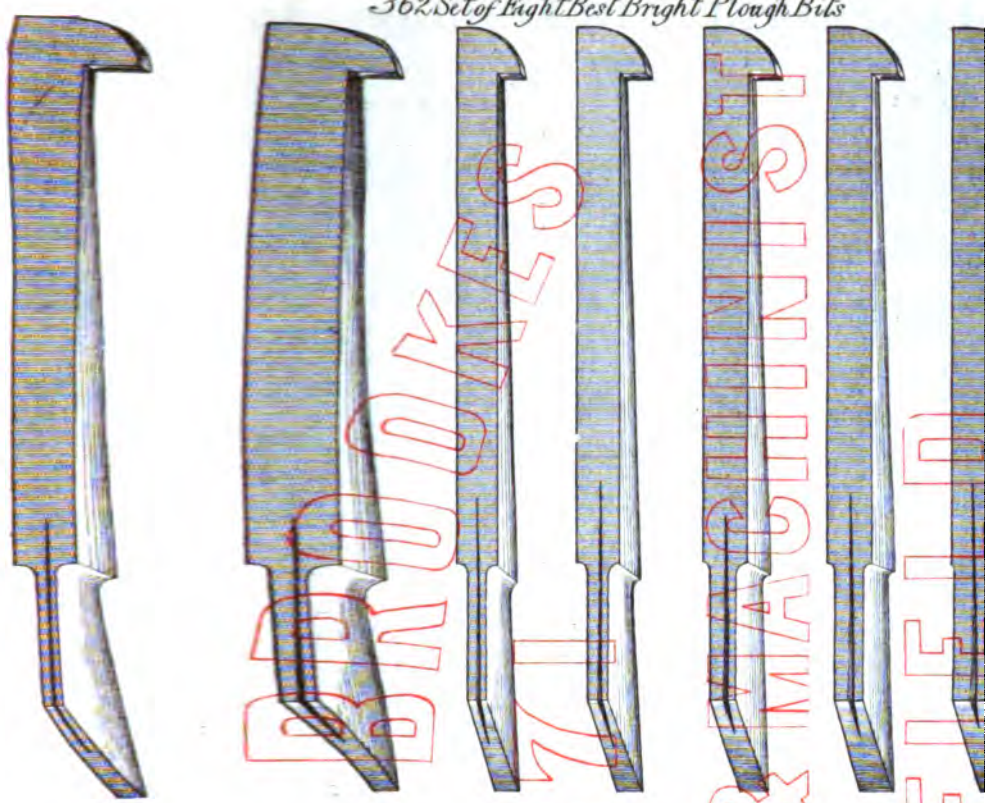
361 Best Black Plough Bits, 5/9 per Dozen; per set of Six, 2/11; of Eight, 3/10.

362 Best Bright Plough Bits, 6/3 per Dozen; per set of Eight, 4/2.

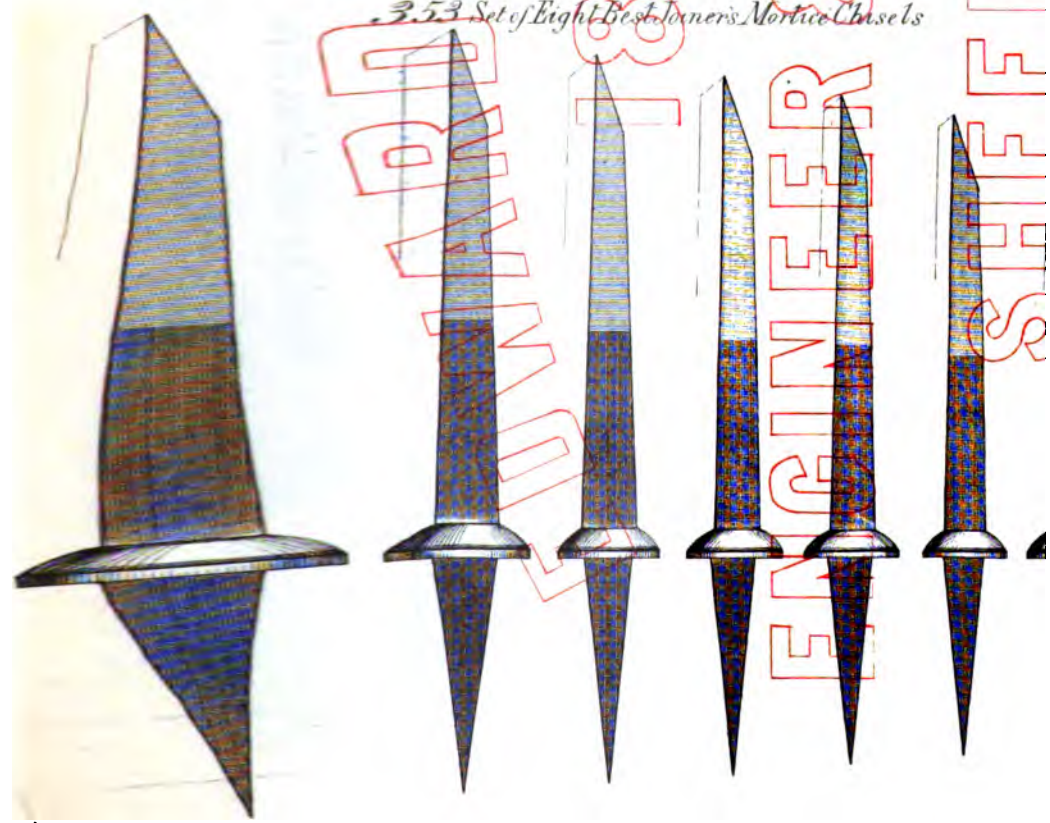
363 Common Plough Bits, 3/9 per Dozen; per set of Eight, 2/6.



362 Set of Eight Best Bright Plough Bits



353 Set of Eight Best Joiner's Mortice Chisels



THE ILLUSTRATED SHEFFIELD LIST.

LIGHT EDGE TOOLS.—Continued.

PLANE IRONS.

	To	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 5/8	2 3/4	3	inches.
Common Plane Irons	4/4	4/7	4/10	5/8	5/9	6/8	7/8	8/8	9/8	10/8	10/9	12/8	14/8	dozen.
Cut Plane Irons	4/10	5/1	5/4	5/9	6/8	7/8	7/9	8/8	9/8	10/8	10/9	11/8	12/8	"
Double ditto	11/4	11/6	12/0	12/6	13/0	13/6	14/0	15/0	16/3	17/6	19/0	20/6	23/0	"
Tooth ditto	7/10	8/4	8/4	9/0	9/6	10/0	10/6	11/6	12/6	13/6	15/0	16/0	26/0	"
Top ditto	3/6	3/6	3/6	3/6	3/9	4/0	4/3	4/6	4/9	5/6	6/0	6/9	8/6	10/0

Common Double Irons, Solid Nuts, 2/0 per dozen extra; ditto, if Glazed Tops, 9d. per dozen extra. Common Tops, Punched and Tapped, 6d. per dozen extra. Skew Plane Irons, 1/0 per dozen extra to Plane. Skew Double, 2/0 per dozen extra to Double. All Irons above 3 inches, same as Coopers' Jointers.

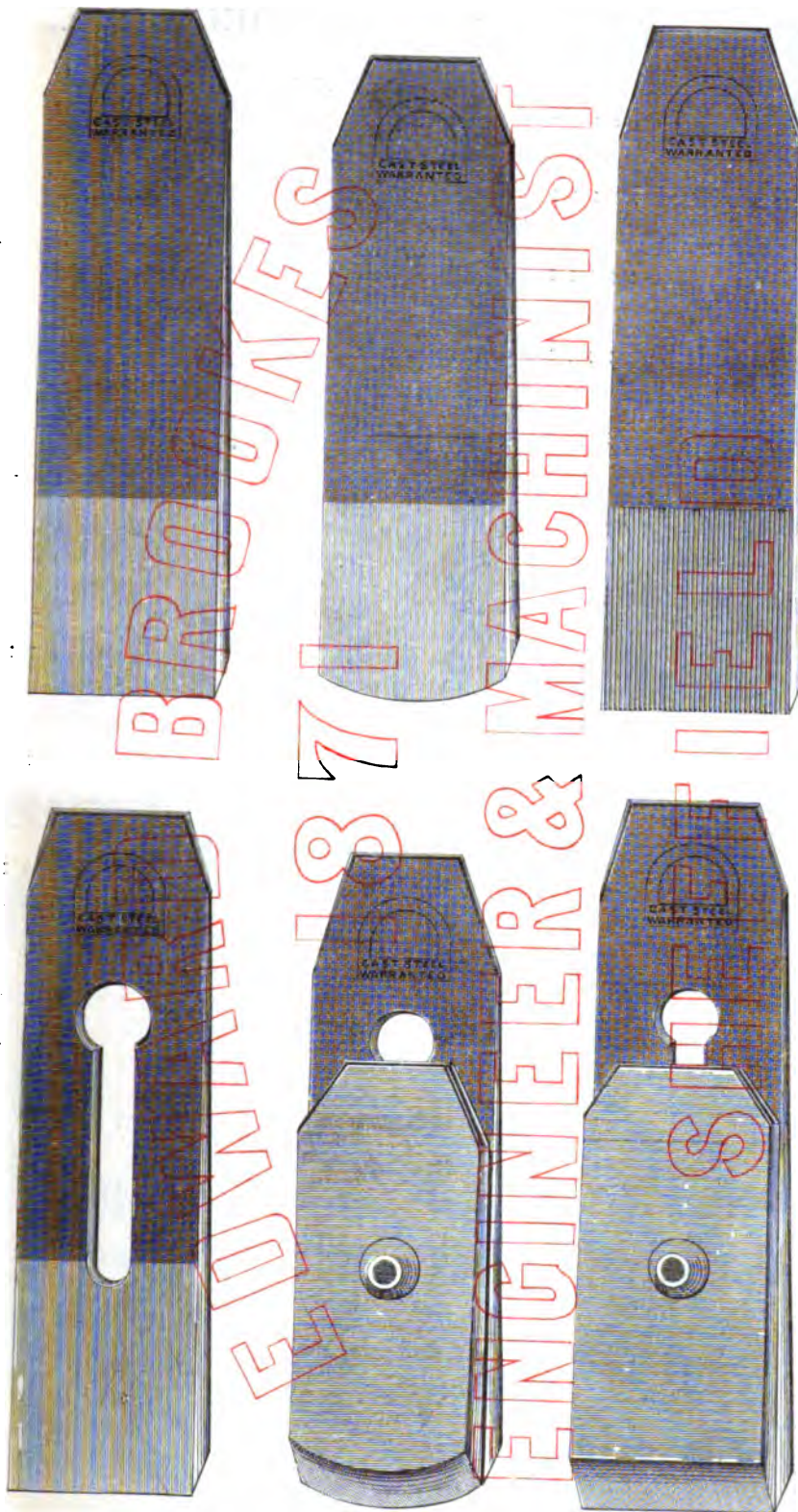
Large Plane Irons, for Planing Machines, made to any pattern.

Round Nose Plane Irons, same price as Square ditto.

CAST STEEL PLANE IRONS.

	To	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 5/8	2 3/4	3	inches.
Cast Steel Plane Irons, Warranted	7/0	7/0	7/0	7/0	7/0	7/6	8/0	8/6	10/0	10/6	11/9	12/6	15/0	dozen.
Ditto Cut Plane Irons, ditto	7/6	7/6	7/6	7/6	7/6	8/0	8/6	9/0	10/0	10/6	11/9	12/6	15/0	"
Ditto Round Nose Plane Irons, ditto	7/0	7/0	7/0	7/0	7/0	7/6	8/0	8/6	10/0	10/6	11/9	12/6	15/0	"
Ditto Cut Plane Irons, ditto	7/6	7/6	7/6	7/6	7/6	8/0	8/6	9/0	10/0	10/6	11/9	12/6	15/0	"
Ditto Tooth Plane Irons, ditto	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	"
Ditto Double Plane Irons, ditto	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	"
Ditto ditto, Round Nose, ditto	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	16/0	"
Solid Nuted Top Plane Irons	..	..	..	..	..	6/9	6/0	6/3	6/6	6/9	7/6	8/0	8/9	10/6

Parallel Plane and Cut Irons, 2/6 per dozen extra.—Mitre Irons, 1/0 per dozen extra.





## THE ILLUSTRATED SHEFFIELD LIST.

## LIGHT EDGE TOOLS.—Continued.

## DRAWING KNIVES.

No.		8	9	10	11	12	13	14	15	16	inches. dozen.
393	German Steel Carpenters' Drawing Knives.....	16/0	16/0	16/9	18/0	19/3	21/6	24/0	27/6	31/0	
394	Cast Steel ditto .....	22/6	23/6	24/6	26/6	30/0	32/6	35/6	39/6	..	
395	Ditto London ditto .....	22/6	23/6	24/6	26/6	30/0	32/6	35/6	39/6	..	
396	Ditto Narrow Wheelers' ditto .....	19/0	20/0	21/0	22/6	24/0	..	..	..	..	
397	Ditto German Shape ditto .....	16/3	16/3	17/0	18/3	19/6	21/9	24/3	27/9	31/3	
398	Coopers' Drawing Knives, 1½ inch wide .....	..	..	22/9	24/3	27/6	30/6	32/6	35/6	..	
399	Ditto Heading Knives, 2 inches wide .....	..	..	27/6	29/0	31/0	..	..	..	..	
400	Cast Steel Coopers' Strong Liverpool Drawing Knives .....	..	..	44/0	..	..	..	..	..	..	
401	Ditto ditto Crump .....	..	45/6	47/0	..	..	..	..	..	..	
402	Ditto ditto Hollowing ditto .....	..	..	28/0	30/0	..	..	..	..	..	
403	Broad London Hollowing Knives .....	22/0	24/0	26/0	28/0	30/0	..	..	..	..	
403A	Coopers' Hollowing Knives, German Shape .....	17/6	18/3	19/0	20/6	21/6	..	..	..	..	

German Drawing Knives and Hollowing Knives, if Handled and with Bright Hoops, 3/0 per dozen extra; without Hoops, 2/6 per dozen extra.

404	Gentlemen's Box Handled Drawing Knives, Cast Steel.....	4	4½	5	5½	6	6½	7	inches. dozen.
		20/0	22/0	24/0	26/0	28/0	30/0	32/0	

## MAST SHAVES.

405	Best Mast Shaves, 2½ inches wide .....	12	14	16	18	20	inches. dozen.
406	Ditto ditto, 3 ditto .....	34/0	40/0	44/0	50/0	56/0	
		40/0	46/0	53/0	63/0	72/0	

Improved Machine Knives, of every description and Pattern, for all kinds of Machinery for cutting Tobacco, Chicory, Leather, Paper, India Rubber, Cork, Logwood, Chaff, Hay, Bark, Splitting Skins, Scaleboards, Candlewicks, &amp;c. Plain, Twisted, and Spiral Chaff Knives; Machine Plane Irons, Grooving and Moulding Irons, Envelope Cutters, Mill Picks and Chisels, Mining Tools, &amp;c.

## COOPERS' JOINTER IRONS.

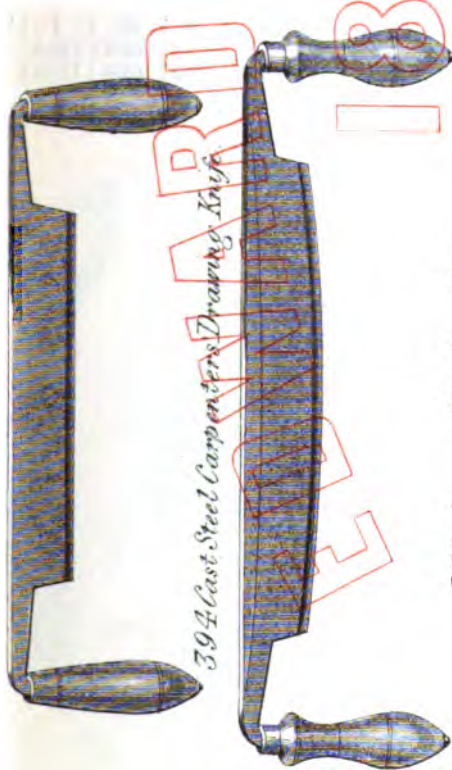
	3	3½	3¾	4	4½	5	5½	6	6½	7	inches. dozen.
Coopers' Jointer Irons, 10 inches long .....	20/0	20/6	21/6	22/9	24/0	25/3	27/0	28/6	30/0	31/6	
Ditto ditto 11 ditto .....	21/3	21/9	23/0	24/3	25/3	26/6	28/3	29/6	31/0	32/6	
Ditto ditto 12 ditto .....	22/9	23/6	24/9	26/0	27/6	28/9	30/9	32/0	33/6	35/0	
C.S. Coopers' Jointers, 10 ditto .....	26/0	26/6	27/0	28/0	29/0	30/0	32/0	33/0	34/0	35/0	
Ditto ditto 11 ditto .....	26/0	27/0	28/0	29/0	30/0	31/0	33/0	34/0	35/0	36/0	
Ditto ditto 12 ditto .....	27/0	28/0	29/0	30/0	31/0	32/0	34/0	35/0	36/0	37/0	
Ditto Double Jointers, 10 ditto .....	48/6	..	52/6	..	56/6	..	61/6	66/6	..	..	
Ditto ditto 11 ditto .....	49/0	..	53/6	..	57/6	..	62/6	67/6	..	..	

All Coopers' Jointer Irons, if Out, 2/0 per dozen extra; if double, with Solid Nuts, 3/0 per dozen above double price of the Out Irons.

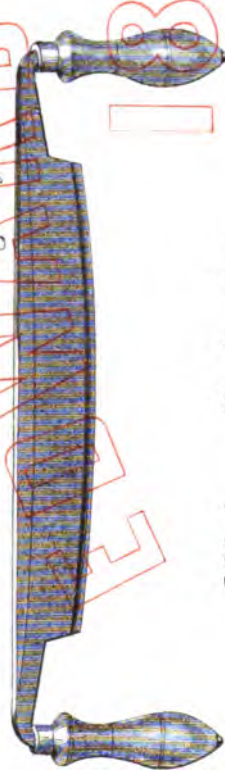
Cast Steel Coopers' Whittles .....	3½	4	4½	5	inches. dozen.
Ditto Strong ditto .....	6/6	5/6	6/9	6/0	
Common ditto .....	6/0	6/0	6/6	7/0	
	4/0	4/6	4/6	4/9	



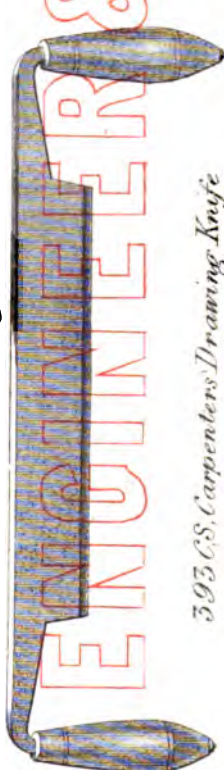
398 Coopers' Drawing Knife



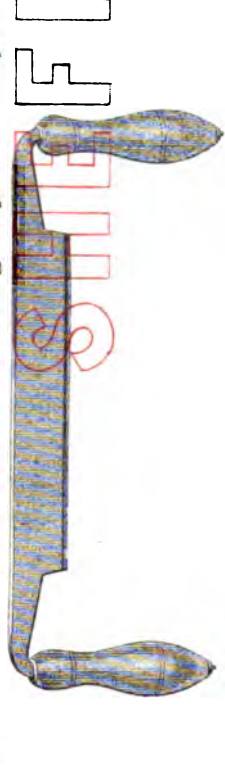
394 Cast Steel Carpenters' Drawing Knife



399 Coopers' Heading Knife



395 C.S. Carpenters' Drawing Knife



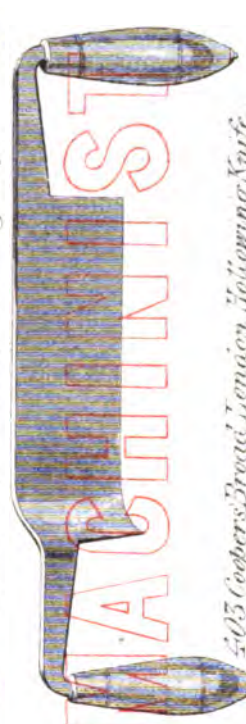
400 C.S. Strong Liverpool Drawing Knife



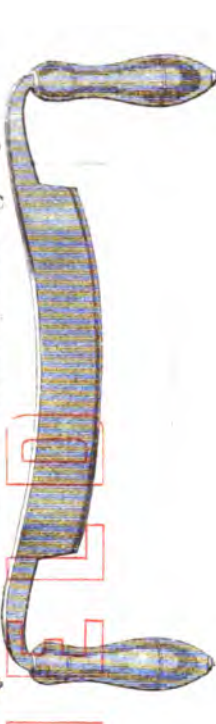
401 C.S. Coopers' Liverpool Hollowing Knife



402 C.S. Coopers' Cramp Hollowing Knife

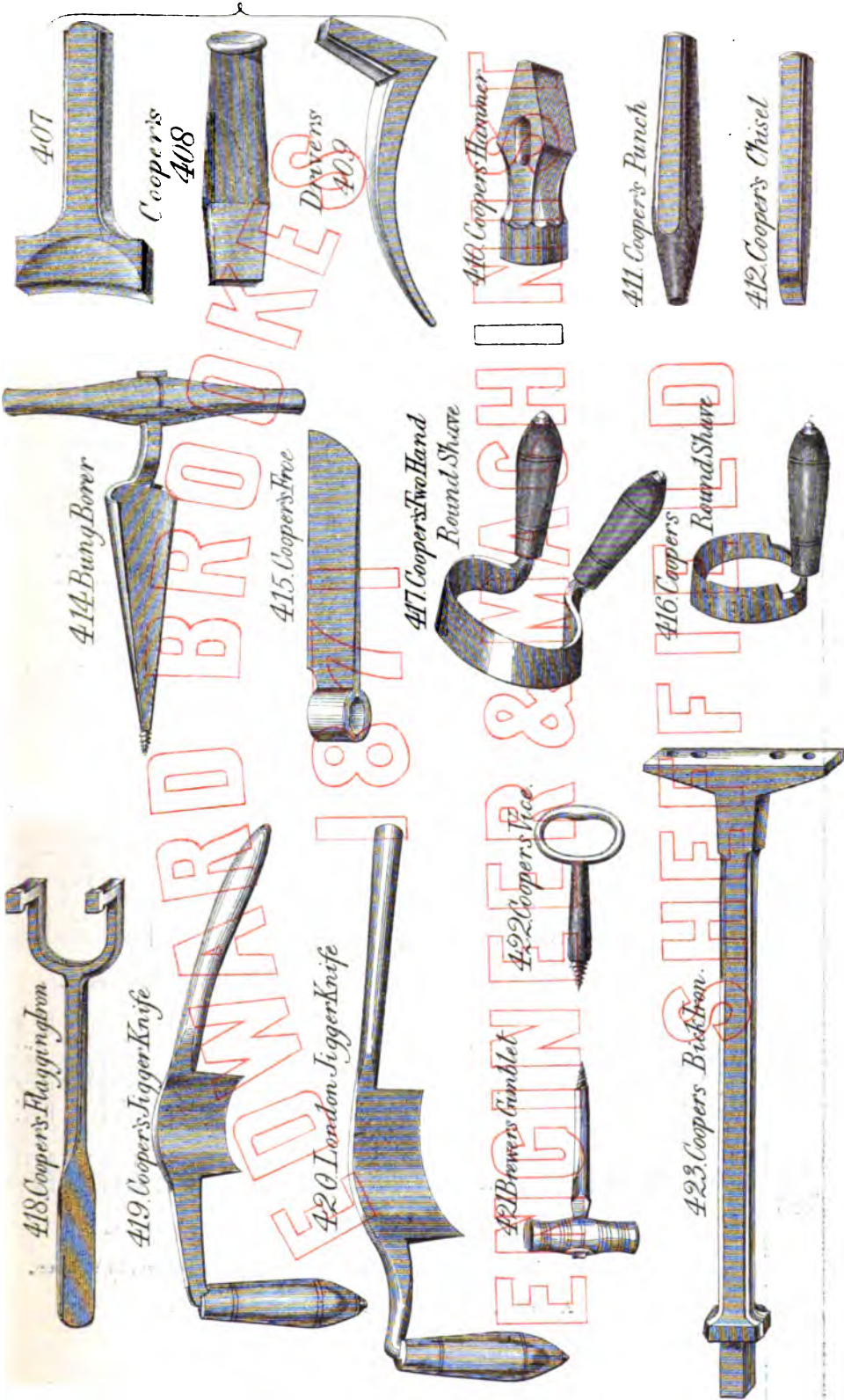


403 Coopers' Broad Tendon Hollowing Knife



# THE ILLUSTRATED SHEFFIELD LIST.

DIS- COUNT.	No.	HEAVY EDGE TOOLS.										
COOPERS' TOOLS.												
407	Coopers' Straight Drivers, 14/0 per dozen.											
408	Ditto	Stocked	ditto,	22/0	„							
409	Ditto	Bent	ditto,	15/0	„	If with Steel Heads, large size, 20/0 per dozen.						
410	Ditto	Hammers, 10d. per lb.										
411	Ditto	Punches, 9/0 per dozen.										
412	Ditto	Chisels, 9/0 „										
413	To   $\frac{1}{2}$   $\frac{3}{4}$   1   $1\frac{1}{2}$   $1\frac{1}{4}$   $1\frac{3}{4}$   $1\frac{1}{2}$   $1\frac{1}{4}$   2   inches.											
413A	Warranted all Steel Tap Borers	....	8/0	8/0	8/0	10/0	12/0	14/0	16/0	22/0	30/0	dozen.
	Ditto	Handled ditto	....	9/6	9/6	9/6	12/0	14/0	16/6	18/6	26/0	35/0 „
414	2   $2\frac{1}{2}$   $2\frac{1}{4}$   $2\frac{3}{4}$   3   $3\frac{1}{2}$   4   inches.											
414A	Warranted all Steel Bung Borers	.....	42/0	46/0	50/0	54/0	72/0	100/0	138/0			dozen.
	Ditto	ditto	Handled ..	47/0	52/0	56/0	61/0	79/0	108/0	146/0	„	
416	Coopers' Froes.											
416	Ditto	One-Hand Round Shaves, 16/3 per dozen.										
417	Ditto	Two-Hand	ditto,	16/3	„							
417A	Ditto	Iron-Handled	ditto,	30/0	„							
418	Ditto	Flagging Irons, 20/0 per dozen.										
419	Ditto	Jigger Knives, 27/6 „										
420	Ditto	ditto,	London Pattern, 30/0 per dozen.									
421	Brewers' Gimblets, 7/3 per dozen.											
422	Coopers' Vices, 13/0 „											
422A	Ditto	Common, 9/0 „										
423	Coopers' Bick Irons, 9d. per lb.											



Dis-  
count.

No.

HEAVY EDGE TOOLS.—Continued.

AUGERS, BRUZZES, &c.

		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	in.
424	Carpenters' Shell Augers.....	7/0	7/6	8/9	10/6	12/3	14/0	15/9	17/6	19/3	22/0	28/6	34/0	45/0	62/0	doz.
425	Ditto Eyed with 12in. Shank..	10/6	11/0	12/6	14/6	17/0	20/0	23/0	26/0	29/0	32/0	36/0	40/0	..	..	"
426	Dod's Pattern Ship Augers....	7/0	7/6	8/9	10/6	12/3	14/0	15/9	17/6	19/3	22/0	28/6	34/0	..	..	"
427	Ship Augers, Long Shell.....	8/3	8/9	10/0	12/0	13/9	15/9	17/6	19/6	21/3	23/3	28/9	34/9	..	..	"
428	Ditto Eyed .....	11/9	12/3	13/9	16/0	18/6	21/9	24/9	28/0	31/0	33/3	38/6	45/0	..	..	"
429	Black Screw Augers.....	10/9	10/9	13/3	15/9	18/3	20/9	23/3	25/9	28/3	30/9	35/9	40/9	..	..	"
430	Ditto Eyed .....	14/9	14/9	17/6	20/9	24/0	27/9	31/3	34/9	37/9	40/9	47/9	54/9	..	..	"
431	Bright Screw Augers .....	14/0	14/0	16/6	19/0	21/6	24/0	27/3	30/0	33/0	36/0	42/0	50/0	..	..	"
432	Do. Scotch Screw Augers, Eyed	20/0	21/0	24/0	27/0	30/0	33/0	37/6	43/6	46/6	50/6	60/6	70/6	..	..	"
433	Improved do. do., Thin Edged	20/0	21/0	24/0	27/0	30/0	33/0	37/6	43/6	46/6	50/6	60/6	70/6	..	..	"
434	Bright American Augers.....	..	51/0	60/0	66/0	73/0	80/0	90/0	100/	110/	120/	..	..	..	..	"
435	Bright Screw Bits, for Braces..	18/0	18/0	22/0	24/0	..	..	..	..	..	..	..	..	..	..	"

		$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	inch.
436	Wheeler's Bruzzes, 14 inches long .....	28/0	30/0	33/0	36/0	40/0	dozen.
437	Ditto London ditto .....	32/0	34/0	38/0	41/0	45/0	"

TROWELS.

		8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10	$10\frac{1}{2}$	11	$11\frac{1}{2}$	12	inch.
438	Cast Steel London Brick Trowels ..	..	..	26/0	27/0	28/0	29/6	30/6	31/9	32/9	dozen.
439	Common Brick Trowels.....	..	..	14/0	14/6	15/0	16/0	16/6	18/0	19/0	"
440	Ditto Glazed do.....	..	..	15/0	15/6	16/0	17/0	17/6	19/0	20/0	"
441	Cast Steel Masons Trowels ....	27/6	28/0	28/6	29/6	30/6	32/0	33/0	..	..	"
442	Common ditto .....	12/0	13/0	14/0	14/6	15/0	15/6	16/0	17/0	18/0	"

Extra Strong Through-Tang Trowels, with Iron Cap, 7/0 dozen extra.

		5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9	inch.
443	Common Edinburgh Trowels ..	..	..	..	..	13/0	14/0	15/0	16/0	..	dozen.
444	Cast Steel ditto Trowels....	..	..	..	..	26/6	27/0	27/6	28/6	30/6	"
445	Ditto, Double Ferruled ..	..	..	..	..	33/6	34/0	34/6	35/6	37/6	"
446	Cast Steel Pointing Trowels ..	16/0	16/0	16/0	17/0	18/0	..	..	..	..	"
447	Ditto Gauging ditto ....	..	..	20/0	20/6	21/0	22/6	23/9	..	..	"

		10	$10\frac{1}{2}$	11	inch.
448 and 449	Cast Steel Plastering Trowels .....	25/0	26/6	28/0	dozen.

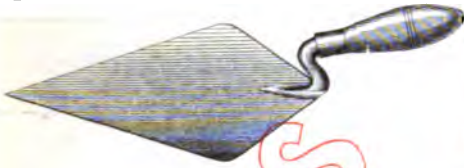
Cast Steel Plasterers' Moulding Tools, assorted, 9/6 dozen.

Ditto ditto ditto London Pattern, 14/6 dozen.

American, with Peak in front, 6s. per dozen extra.



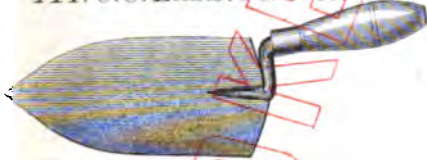
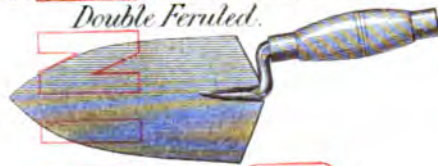
438. C. S. London Brick Trowel.



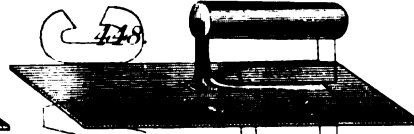
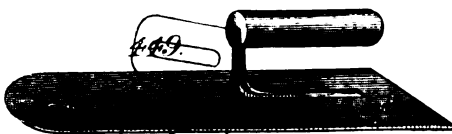
446. C. S. Pointing Trowel.



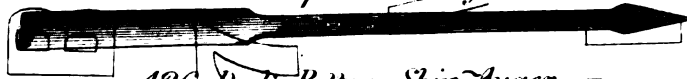
444. C. S. Edinbro' Trowel.

445. C. S. Edinbro' Trowel.  
Double Feruled.

C. S. Plasterers Trowels.



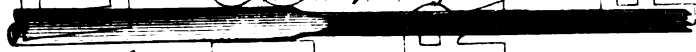
424. Carpenter's Auger.



426. Bod's Pattern Ship Auger.



427. Ship Auger.



435. Bright Screw Bit.



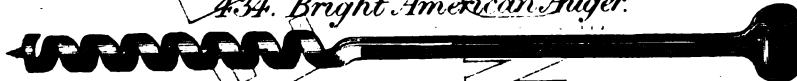
429. Black Screw Auger.



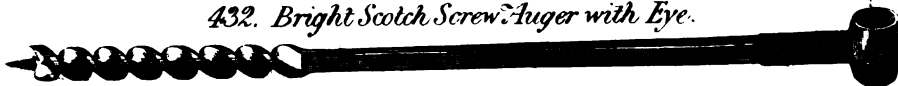
430. Black Screw Auger with Eye.



434. Bright American Auger.

433. Improved Bright Scotch Screw Auger.  
Thin Edges

432. Bright Scotch Screw Auger with Eye.



## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## HEAVY EDGE TOOLS—Continued.

## MINCING AND CHEESE KNIVES.

		6	6½	7	7½	8	inches.
450	G. S. Mincing Knives, Square .....	13/0	14/0	15/0	..	..	dozen.
451	Ditto ditto Half-round .....	13/0	14/0	15/0	..	..	"
452	Cast Steel Mincing Knives, Square .....	18/0	19/0	20/0	..	..	"
453	Ditto ditto Half-round .....	18/0	19/0	20/0	..	..	"
454	G. S. Improved Mincing Knives .....	17/6	18/6	19/6	..	..	"
455	Cast Steel ditto ditto .....	21/0	22/0	23/0	..	..	"
456	G. S. Double Tang Mincing Knives .....	17/0	18/6	20/0	21/0	22/0	"
457	Cast Steel ditto ditto .....	22/0	24/0	26/0	28/0	30/0	"
458	Ditto Improved ditto .....	28/0	30/0	32/0	34/0	36/0	"
459	Ditto French ditto .....	..	..	40/0	42/6	45/0	"

		8	9	10	11	12	14	inches.
460	Cheese Knives .....	24/0	27/0	32/0	39/0	45/0	56/0	dozen.
461	Improved Cast Steel, Deep, Solid .....	36/0	42/0	48/0	55/0	62/0	84/0	"

## TANNERS' AND CURRIERS' KNIVES.

Best Tanners' Single Edge, 48/0 dozen.  
Ditto Double Edge, 72/0 dozen.

		½	¾	1	1½	size.
	Common Curriers' Knives .....	50/0	55/0	60/0	72/0	dozen.
	Cast Steel Rivetted ditto .....	68/0	72/0	84/0	96/0	"
	Ditto ditto ditto Improved with Screws .....	71/0	75/0	87/0	99/0	"
	Cast Steel Curriers' Knife Blades .....	36/0	37/0	38/0	40/0	"

		10	11	12	inches.
	Round Skinners' Moon Knives .....	40/0	43/0	46/0	dozen.
	Cast Steel Warranted ditto .....	56/0	60/0	66/0	"

## SADDLERS' KNIVES.

		5	5½	6	6½	7	inches.
	Cast Steel Saddlers' Knives, Single Tang .....	15/0	15/6	16/6	18/0	21/0	dozen.
	Ditto ditto Double Tang .....	16/0	18/0	20/0	22/0	24/0	"

## CHOPPERS.

No.	0	1	2	3	4	5	6	
462	Bright Wood Handle Chopper .....	18/6	20/0	22/0	24/0	28/0	34/0	38/0 dozen.
463	Round Nose ditto .....	..	23/0	25/0	27/0	31/0	37/0	41/0 "
464	Smithfield Butchers' Choppers, Solid Steeled ..	..	..	39/0	41/0	44/0	..	.. "
465	Sugar Chopper .....	..	15/0	16/0	17/6	18/6	..	.. "
466	Beef Steak Beaters, 28/0 per dozen.							
467	Ditto Scale Tang, 40/0 ..							
468	Bright Iron Handled Butchers' Cleavers, 1/0 per lb.							
469	Ditto Scale Tang ditto 1/3 ..							

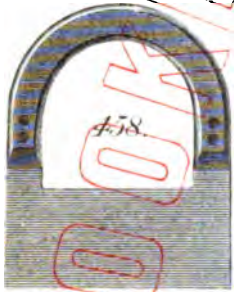
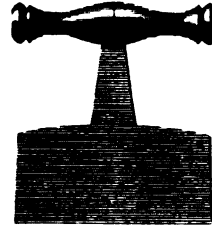
453  
*C. S. Mincing Knife.*



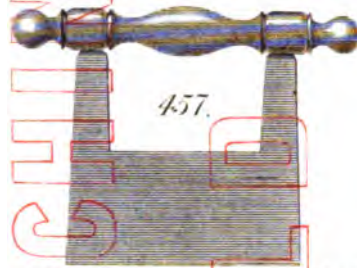
455.  
*C. S. Improved Mincing Knife.*



452  
*C. S. Mincing Knife.*



458.  
*C. S. Improved Double Tang Mincing Knife.*



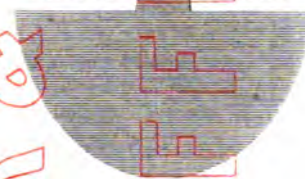
457.  
*C. S. Double Tang Mincing Knife.*

459. *C. S. French Mincing Knife.*

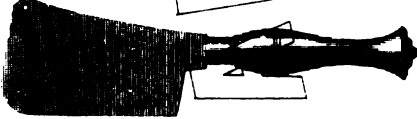


461. *Cast Cheese*

*Steel Knife.*



463. *London Pattern Meat Chopper.*



462. *Bright Meat Chopper.*



464. *Smithfield Chopper: Solid Steeled.*



466. *Steak Beater.*



468. *Iron Handle Butchers Cleaver.*



465. *Sugar Chopper.*



## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## HEAVY EDGE TOOLS.—Continued.

## HATCHETS.

No.	0	1	2	3	4	5	6	
470	Common Helved Hatchets .....	9/0	9/6	11/0	13/0	..	..	dozen.
471	Ditto Polled ditto .....	10/9	11/6	13/0	16/0	..	..	"
472	Black Helved Hatchets .....	12/6	13/0	14/0	15/6	17/6	19/6	22/6
473	Bright ditto .....	16/0	16/6	17/6	19/0	23/0	25/0	27/6
474	Best Kent Bright Polled ditto, Handled .....	18/0	18/6	19/6	21/0	26/0	28/0	30/0
475	Common Shingling Hatchets, Handled .....	..	18/0	19/0	21/0	23/0	..	..
476	Best ditto ditto .....	..	24/0	26/0	28/0	30/0	..	..
477	Best ditto ditto Strong Improved .....	28/0	30/0	32/0	34/0	..	..	..

Shingling Hatchets, Chequered Face, 1/6 per dozen extra.

## AXES.

478	Newcastle Ship Axe, 9d. per lb.
479	Ditto ditto, Steel Polled, 10d. per lb.
480	Blocking Axe, 9d. per lb.
481	Ditto ditto, Steel Polled, 10d. per lb.
482	Ship Axe, Round Eye, 9d. per lb.
483	Ship Carpenters' Axe, 9d. per lb.
484	Ditto ditto, Steel Polled, 10d. per lb.
485	Ship Axe, Dod's Pattern, 9d. per lb.
486	Australian Felling Axe, 7½d. per lb.
487	Ditto ditto Steel Polled, 9½d. per lb.
488	Colonial Felling Axe, 7½d. per lb.
489	Ditto ditto Steel Polled, 9½d. per lb.
490	Long Felling Axe, 7½d. per lb.
491	Ditto ditto Steel Polled, 9½d. per lb.
492	Best Wheelers' Axe, 1s. per lb.
493	Best Coachmakers' Axe, 1s. per lb.
494	Newcastle Axe, above 2 lbs., 7½d. per lb.
495	Best Newcastle Axe, Steel Polled, above 2 lbs., 9½d. per lb.; under 2 lbs., 21/0 per dozen.
496	Yorkshire Axe, above 2 lbs., 7½d. per lb.
497	Best Yorkshire Axe, Steel Polled, above 2 lbs., 9½d. per lb.; under 2 lbs., 21/0 per dozen.
498	Best Yorkshire Axe, Electro Boracic Steel, above 2 lbs., 1/0 per lb.; under 2 lbs., 24/0 per dozen.
499	Scotch Axe, above 2 lbs., 8d. per lb.
500	Best Scotch Axe, above 2 lbs., 9½d. per lb.; under 2 lbs., 21/0 per dozen.
501	Ditto ditto, Electro Boracic Steel, above 2 lbs., 1s. per lb.; under 2 lbs., 24/0 per dozen.
502	Common Black Kent Axe, C, above 3 lbs., 6½d. per lb.
503	Black Kent Axes, above 2 lbs., 8d. per lb.
504	Best Kent Axe, Steel Polled, above 2 lbs., 9½d. per lb.; under 2 lbs., 21/0 per dozen.
505	Ditto ditto, Electro Boracic Steel, above 2 lbs., 1/0 per lb.; under 2 lbs., 24/0 per dozen.
506	Common Black Irish Axe, C, above 3 lbs., 6½d. per lb.
507	Black Irish Axe, above 2 lbs., 8d. per lb.
508	Best Irish ditto, above 2 lbs., 9½d. per lb.; under 2 lbs., 21/0 per dozen.
509	Ditto ditto, Electro Boracic Steel, 1/0 per lb.; under 2 lbs., 24/0 per dozen.
510	Black Suffolk Axe, above 2 lbs., 8d. per lb.
511	Best ditto, Steel Polled, above 2 lbs., 9½d. per lb.; under 2 lbs., 21/0 per dozen.
512	Ditto ditto, Electro Boracic Steel, above 2 lbs., 1/0 per lb.; under 2 lbs., 24/0 per dozen.



Newcastle  
Ship. Axe.



Blockington. Axe.



Ship. Axe  
Round Eye.



Ship. Axe.



Australian Felling. Axe.



Colonial  
Felling. Axe.



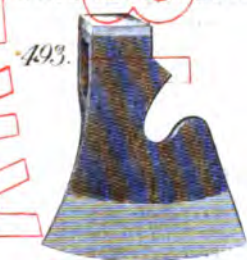
Long  
Felling. Axe.



Best  
Wheeler's. Axe.



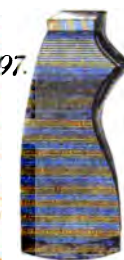
Best  
Coachmaker's. Axe.



Newcastle  
Axe.



Yorkshire  
Axe.



Scotch  
Axe.



Kent  
Axe.



Irish  
Axe.



Suffolk  
Axe.



BROOK

WALTON

SHEFFIELD

W

N

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## HEAVY EDGE TOOLS.—Continued.

- 513 French Felling Axe, 7½d. per lb.  
 514 Best ditto, 9½d. „  
 515 Brasil Axe, 7½d. per lb.  
 516 Best ditto, 9½d. „  
 517 Pennsylvania Side or Squaring Axe, Electro-Boracic Steel, 1/2 per lb.  
 518 Biscay Squaring Axe, 7½d. per lb.  
 519 Best ditto 9½d. „  
 520 Kentucky Wedge Axe, Electro-Boracic Steel, above 3 lbs., 1/3; under, 1/4 per lb.  
 521 Canada ditto, ditto, above 3 lbs., 1/3; under, 1/4 per lb.  
 522 Dutch Side Axe, above 3 lbs., 10d. per lb.  
 523 Side or Squaring Axe, 1/0 per lb.

		10	11	12	inches.
524	G. S. Coopers' Axe.....	36/0	38/0	40/0	dozen.
525	Cast Steel ditto .....	40/0	42/0	44/0	„

	No.	1	2	3	4	
526	American Lathing Hatchet.....	24/0	26/0	28/0	30/0	per dozen.
527	Canada Hatchet, Blued, Handled .....	30/0	34/6	38/0	43/0	„
528	American Shingling Hatchet, with Claw .....	28/0	30/0	32/0	34/0	„
529	American Shingling Hatchet .....	26/0	28/0	30/0	32/0	„
530	French ditto .....	20/0	22/0	24/0	26/0	„

*American Lathing Hatchet.*

526.



*Canada Hatchet.*

527.



*American Shingling Hatchet with Claw.*

528.



*American Shingling Hatchet.*

529.



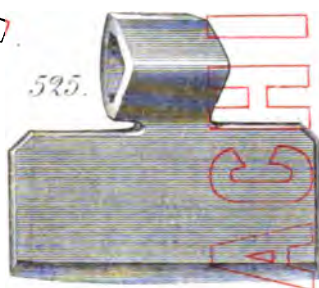
*French Shingling Hatchet.*

530.



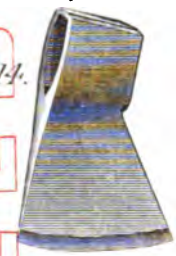
*Coopers' Axe.*

525.



*French Felling Axe.*

514.



*Brazil. Axe.*

516.



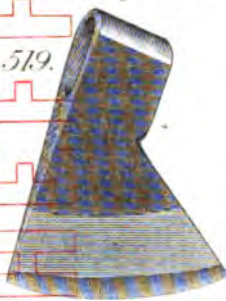
*Pennsylvania Side or Squaring. Axe.*

517.



*Biscay Squaring. Axe.*

519.



*Kentucky Wedge. Axe.*

520.



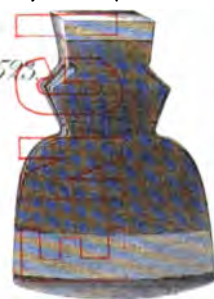
*Dutch Side. Axe.*

522.



*Side or Squaring. Axe.*

523.



*Canada Wedge. Axe.*

521.



## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	HEAVY EDGE TOOLS.—Continued.					
		ADZES.					
		No.	1	2	3	4	
	531	Carpenters' Adze.....	25/0	27/0	30/0	31/6	dozen.
	532	Best ditto .....	31/0	33/0	35/6	37/6	"
	533	Ship Adze .....	29/0	33/0	36/0	40/0	"
	534	Best ditto .....	36/0	40/0	43/6	46/6	"
	535	Spout Adze .....	26/0	28/0	30/0	32/0	"
	536	Improved Scotch Adze, Blued .....	44/0	48/0	52/0	56/0	"
	537	Ditto ditto, Black .....	40/0	44/0	48/0	52/0	"
	538	Wheelers' Adze .....	28/0	30/0	32/6	34/6	"
	539	Best ditto .....	36/0	40/0	43/0	46/0	"
	540	American Adzes, Round Eye, Electro-Boracic Steel.....	74/0	78/0	82/0	..	"
	541	Ditto ditto Black .....	48/0	52/0	56/0	..	"
	542	Slot Adzes, Electro-Boracic Steel.....	43/0	45/6	49/0	..	"
	543	Ditto Black .....	39/0	41/6	45/0	..	"
	544	Coopers' Nail Adzes .....	24/0	26/0	28/0	30/0	"
	545	Ditto ditto, Cast Steel .....	31/0	33/6	35/6	38/0	"
	546	Ditto Sharp Adzes .....	24/0	26/0	28/0	30/0	"
	547	Coopers' Sharp Adzes, Cast Steel .....	31/0	33/6	35/6	38/0	"
	548	Ditto Nail Adzes, Sexagon Eyes, Liverpool Pattern .....	40/0	42/0	44/0	46/0	"
	549	Ditto Sharp Adzes ditto ditto .....	38/0	40/0	42/0	44/0	"
	550	Ditto Howel's.....	18/0	20/0	22/0	24/0	"



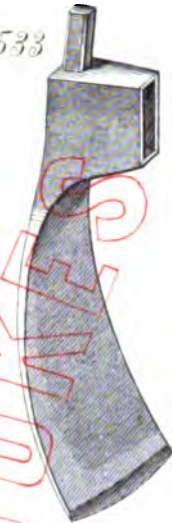
*Carpenters Adze*

531



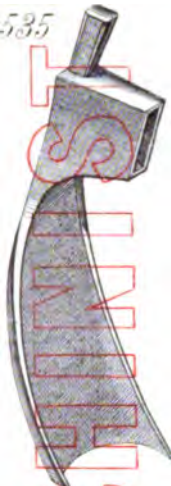
*Ship Adze*

533



*Spout Adze*

535



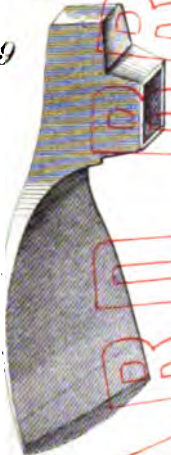
*Improved Scotch Adze*

536



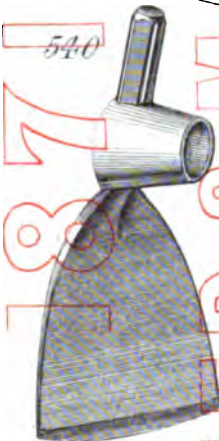
*Best Wheelers Adze*

539



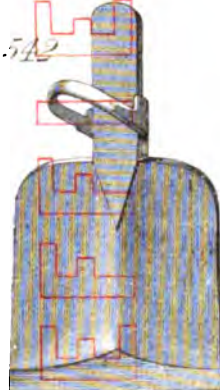
*American Adze Round Top*

540



*Brazil Slot Adze*

542



*Coopers Vail Adze*

544



*Coopers Sharp Adze*

546



*Coopers Broad Adze Liverpool Pattern*

548



*Coopers Sharp Adze Liverpool Pattern*

549

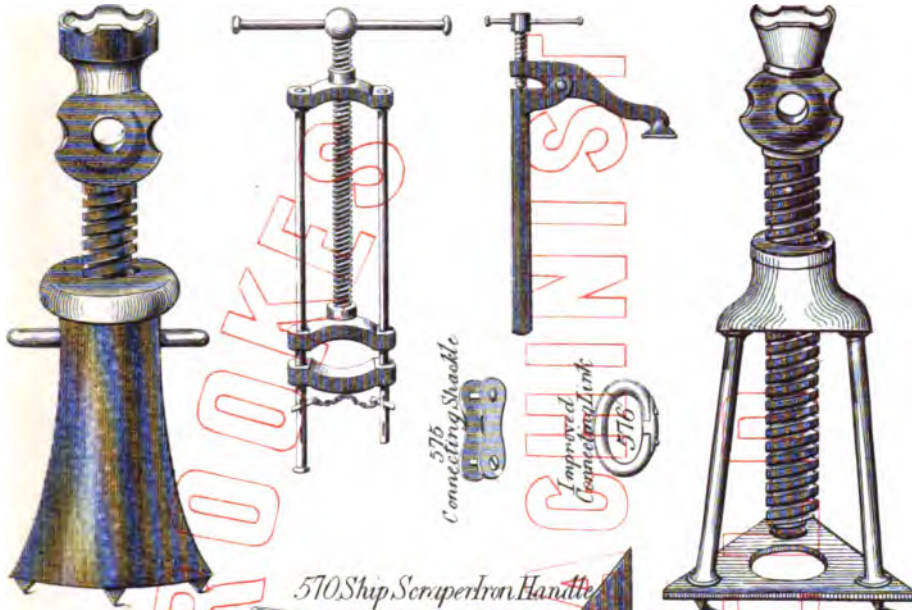


# THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

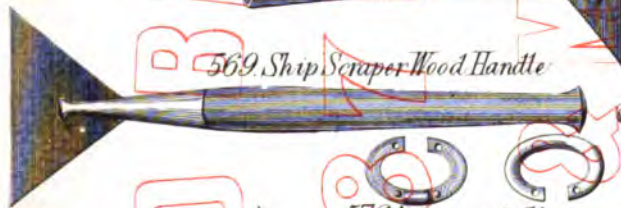
No.	SCREW JACKS, RIGGING SCREWS, JOINERS' CRAMPS, &c.																
	Height with Screw Down.....	10	12	15	18	21	24	27	30	36	42	inches.					
561	Bottle Screw Jack, to lift.....	1	2	3	4	6	8	10	12	15	20	tons.					
		28/0	33/0	40/0	52/0	67/0	82/0	100/0	125/0	155/0	195/0	each.					
	Height with Screw Down.....	10	12	15	18	21	24	27	30	36	42	inches.					
562	Tripod Screw Jack, with Brass Bush, to lift.....	1	2	3	4	6	8	10	12	15	20	tons.					
		48/0	48/0	67/0	72/0	86/0	105/0	125/0	155/0	190/0	250/0	each.					
563	Bright Rigging Screws .....	8	10	12	14	16	18	20	inches.								
564	Common ditto .....	12/0	14/9	18/6	21/6	24/6	29/6	35/0	each.								
		3	4	5	6	7	8	feet.									
565	Joiners' Cramps .....	30/0	32/0	35/0	42/0	50/0	60/0	each.									
566A	Ship Cramps, 9d. per lb.																
		18	20	22	24	27	30	inches.									
566	Sash Cramps.....	13/6	16/6	20/0	22/0	25/0	28/0	per pair.									
567	Joiners' Holdfasts, 60/0 per dozen.																
		8	9	10	11	12	13	14	15	16	inches.						
568	Black Marline Spikes .....	8/9	9/3	10/0	10/6	11/6	12/6	14/0	15/6	19/6	dozen.						
569	Bright ditto .....	9/9	10/3	11/0	11/6	12/6	14/0	15/6	18/0	21/0	dozen.						
560	Ditto ditto with Hammer .....	11/0	11/6	12/3	13/0	14/0	15/6	17/0	20/0	23/0	"						
561	Ship Carpenters' Pin Mauls, 9d. per lb.																
CAULKING IRONS.																	
562	Spike Irons, 9/6 dozen.																
563	Making Irons, 9/6 dozen.																
564	Sharp Irons, 9/6 dozen.																
565	Single Crease Irons, 11/0 dozen.																
566	Double Crease Irons, 12/0 dozen.																
567	Tunnel Irons, 10/0 dozen.																
567A	Caulking Irons, in Sets of 4, 3/3 per Set.																
567B	Ditto ditto, in Sets of 6, 5/6 per Set.																
CAST STEEL SHIP SCRAPERS.																	
		4½	5	5½	inches.												
568	Ship Scrapers, with Tang Rivetted .....	9/0	9/6	10/0	dozen.												
568A	Ditto with Socket Rivetted .....	9/6	10/6	11/0	"												
569	Ditto with Nut and Screw .....	10/6	11/6	12/0	"												
570	Ditto Iron Handle, ditto .....	11/6	12/6	13/0	"												
		18	20	22	24	26	28	inches.									
571	Strong Tinned Fleah Forks.....	4/3	4/6	5/0	6/0	9/6	12/0	dozen.									
572	Ditto ditto with Hooks .....	6/3	6/6	7/0	8/0	11/6	14/0	"									
572A	Extra Strong Tinned 3-Prong Forks.....	6/3	6/6	7/0	8/0	11/6	14/0	"									
572B	Ditto 3-Prong Tormentors.....	7/0	7/6	8/0	9/6	13/0	16/0	"									
		3	3½	4	4½	5	5½	6	7	8	inches.						
573	Extra Strong Tinned Cooks' Ladles....	..	..	4/3	4/6	5/0	5/6	6/9	..	..	dozen.						
574	Ditto with Flat Front..	..	..	5/3	5/6	6/0	6/6	7/9	..	..	"						
574A	Ditto Deep Skimmer ..	..	..	5/3	5/6	6/0	6/6	7/9	..	..	"						
574B	Ditto Flat Skimmer....	..	..	3/9	4/0	4/6	4/9	5/0	5/9	8/0	"						
574C	Pitch or Lead Ladle .....	4/0	5/0	6/0	7/0	8/6	..	12/0	18/0	24/0	"						
574D	Ditto with Front Spout ..	..	..	7/0	8/0	10/	12/	..	15/0	18/0	24/0	"					
575	Connecting Shackles:—																
	No.   00   0   1   2   3   4   5   6   7   8   9   10   11   12   13																
	2/10   3/0   3/6   3/10   4/3   5/0   6/0   7/0   7/9   8/9   10/3   11/6   13/0   18/6   22/6	dozen.															
576	Improved Wrought Iron Connecting Links:—																
	½   5-16   ¾   7-16   1   9-16   1½   11-16   2   13-16   2½   15-16   3   17-16   4   19-16   5   21-16	inches.															
	3/0   3/4   3/8   4/4   5/0   6/3   7/6   9/3   11/0   13/0   15/0   17/0   19/6   24/9   28/0   31/6   34/9   40/0	dozen.															
		½	5-16	¾	7-16	1	9-16	1½	11-16	2	inches.						
576A	Improved Split Connecting Links ..	3/3	3/8	4/3	5/0	5/9	6/9	8/6	10/9	13/6	dozen.						
577	Black Screw Shackles .....	..	4/0	4/4	5/4	6/4	7/6	9/3	..	..	"						
577A	Ditto, with Forelocks .....	..	4/0	4/4	5/4	6/4	7/6	9/3	..	..	dozen.						
577B	Ditto, ditto .....	..	3/9	4/0	5/0	6/0	7/0	8/9	..	..	dozen.						
577C	Ditto Screw Shackles.....	..	3/9	4/0	5/0	6/0	7/0	8/9	..	..	dozen.						
		Larger Sizes, 48/0 per Cwt.															
		Larger Sizes, 48/0 per Cwt.															
		Larger Sizes, 48/0 per Cwt.															
		Larger Sizes, 48/0 per Cwt.															

*Bottle Screw Jack* 551    *Bright Rigging Screw* 553    *Joiners Holdfast* 557    *Tripod Screw Jack* 552



570 Ship Scraper Iron Handle

569 Ship Scraper Wood Handle



576 Improved Shape Connecting Link

577 Shackle

578 Hook and Thimble

571 Strong Tinned Flesh Forks

CAULKING IRONS

566

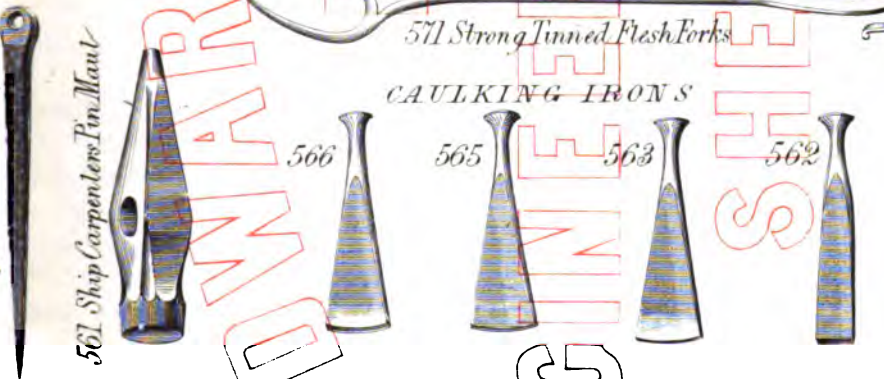
565

563

562

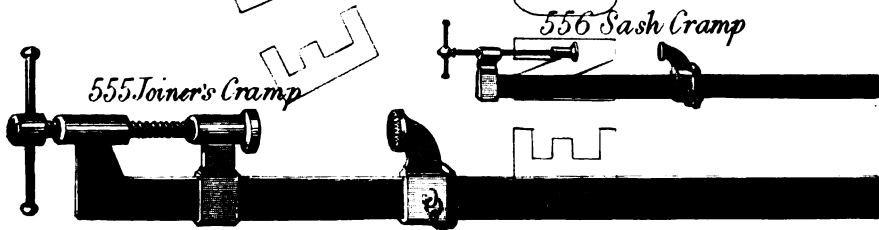
559 Bright Maritime Spike

561 Ship Carpenters Pin Mallet



556 Sash Cramp

555 Joiner's Cramp







DIS- COUNT.	No.	No.   000   00   0   1   2   3   4   5   6   7   8   9															
	578	Tackle Hook & Thimbles, Black	1/10	1/10	2/2	2/8	3/3	per dz.	29/0	29/0	29/0	29/0	29/0	29/0	29/0	29/0	cwt.
	578A	Ditto ditto, Galvanized	2/4	2/4	2/9	3/4	3/10	"	38/6	38/6	38/6	38/6	38/6	38/6	38/6	38/6	"
	579	Clip Hooks & Thimbles, Black	3/10	3/10	4/6	5/2	5/9	"	38/6	37/6	36/6	35/0	35/0	35/0	35/0	35/0	"
	579A	Ditto ditto, Galvanized	4/4	4/6	5/6	6/3	7/3	"	48/0	47/0	46/0	45/0	45/0	45/0	45/0	45/0	"
	580	Black Top Sail Sheet Shackles:—		1/2		9-16	5/8		11-16	1/2		1/2				inch Iron.	
		Jointed .....		8 1/2 d.		8 1/2 d.	8 d.		8 d.	7 1/2 d.		7 1/2 d.				per lb.	
		Not Jointed .....		7 d.		7 d.	6 1/2 d.		6 1/2 d.	6 d.		6 d.				"	
	581	Spectacle Clews:—		1 1/2 lb. to 3 lbs. each.		3 1/2 lbs. and above.											
		Black .....		48/0		44/0										per cwt.	
		Galvanized .....		58/0		54/0										"	
	581A	Spectacle Clews, 1 1/2 lb. to 3 lbs. each, Black, 39/0; 3 1/2 lbs. and upwards, Black, 35/0														per cwt.	
	581B	Ditto ditto Galvanized, 47/0														"	
	581C	Ditto ditto Black, 38/0														"	
	581D	Ditto ditto Galvanized, 46/0														"	
	581E	Ditto ditto Black, 40/0														"	
	581F	Ditto ditto Galvanized, 48/0														"	
	581G	Ditto ditto Black, 42/0														"	
	581H	Ditto ditto Galvanized, 50/0														"	
	581I	Ditto ditto Black, 44/0														"	
	581K	Ditto ditto Galvanized, 52/0														"	
	581L	Ditto ditto Black, 44/0														"	
	581M	Ditto ditto Galvanized, 52/0														"	
	581N	Clew Rings, Black, 34/0 per cwt.															
	581P	Ditto, Galvanized, 42/0														"	
				1   1 1/2   1 1/2   1 1/2   2   2 1/2   2 1/2   2 1/2   3   3 1/2   3 1/2   3 1/2   4												inch.	
	582	Welded Sail Thimbles, Black	6/0	6/8	7/3	8/0	9/4	10/6	12/4	15/0	18/0	21/0	23/0	26/6	30/0	gross.	
	582A	Ditto ditto Galvanized	6/8	7/3	8/0	9/3	11/0	13/3	15/0	18/0	21/6	25/3	30/0	35/6	40/3	"	
	582B	Welded Strong Thimbles, 2 to 5 inches, Black, 30/6; Galvanized, 43/3 per cwt.															
				1   1 1/2   1 1/2   1 1/2   2   2 1/2   2 1/2   2 1/2   3   3 1/2   3 1/2   3 1/2   4												inches.	
	583	Open Sail Thimbles, Black	5/6	6/0	6/8	7/3	8/0	9/4	11/0	13/10	16/9	19/9	21/9	25/3	29/0	per gross.	
	583A	Ditto ditto Galvanized	6/0	6/8	7/3	8/0	10/0	12/0	13/10	16/9	20/6	24/0	29/0	34/3	39/0	"	
	583B	Strong Open Thimbles, 2 inches to 5 inches, Black, 30/0; Galvanized, 40/10 per cwt.															
				2   2 1/2   2 1/2   2 1/2   3   3 1/2   3 1/2   3 1/2											inches.		
	583C	Lip or Saddle Thimbles, Black	12/0	13/3	15/0	17/6	21/6	24/9	27/6	per gross.							
	583D	Ditto ditto, Galvanized	14/6	15/6	18/0	21/0	25/3	30/0	36/6	"							
	583E	Clue Thimbles, extra wide in Score, 2 inches to 4 1/2 inches, Black, 33/6; Galvanized, 44/6 per cwt.															
				2 1/2 by 1 1/2   2 1/2 by 2   3 by 2 1/2   3 1/2 by 2 1/2												inches.	
	583F	Double Thimbles, Black	23/6	27/6	33/3	37/6	per gross.										
	583G	Ditto ditto, Galvanized	28/0	32/6	39/6	46/3	"										
	583H	Lanyard Thimbles, for 2 inch to 5 inch Rope, Black, 38/6; Galvanized, 48/0 per cwt.															
				1 1/2   1 1/2   1 1/2   2   2 1/2   2 1/2   2 1/2											inches.		
	583I	Heart Shaped Thimbles, Black	8/6	9/0	10/3	12/0	13/3	15/0	18/0	per gross.							
		Ditto ditto, Galvanized	10/9	11/6	13/3	15/6	18/0	20/6	24/0	"							
		Ditto ditto, all sizes larger, Black, 38/6; Galvanized, 48/0 per cwt.															
				2   2 1/2   2 1/2   2 1/2												inches.	
	583K	Taper Thimbles, for Wire Ropes, Black	12/6	13/9	15/9	18/9	per gross.										
		Ditto ditto, Galvanized	15/3	18/9	21/3	25/0	"										
		All larger sizes, Black, 38/0; Galvanized, 50/0 per cwt.															

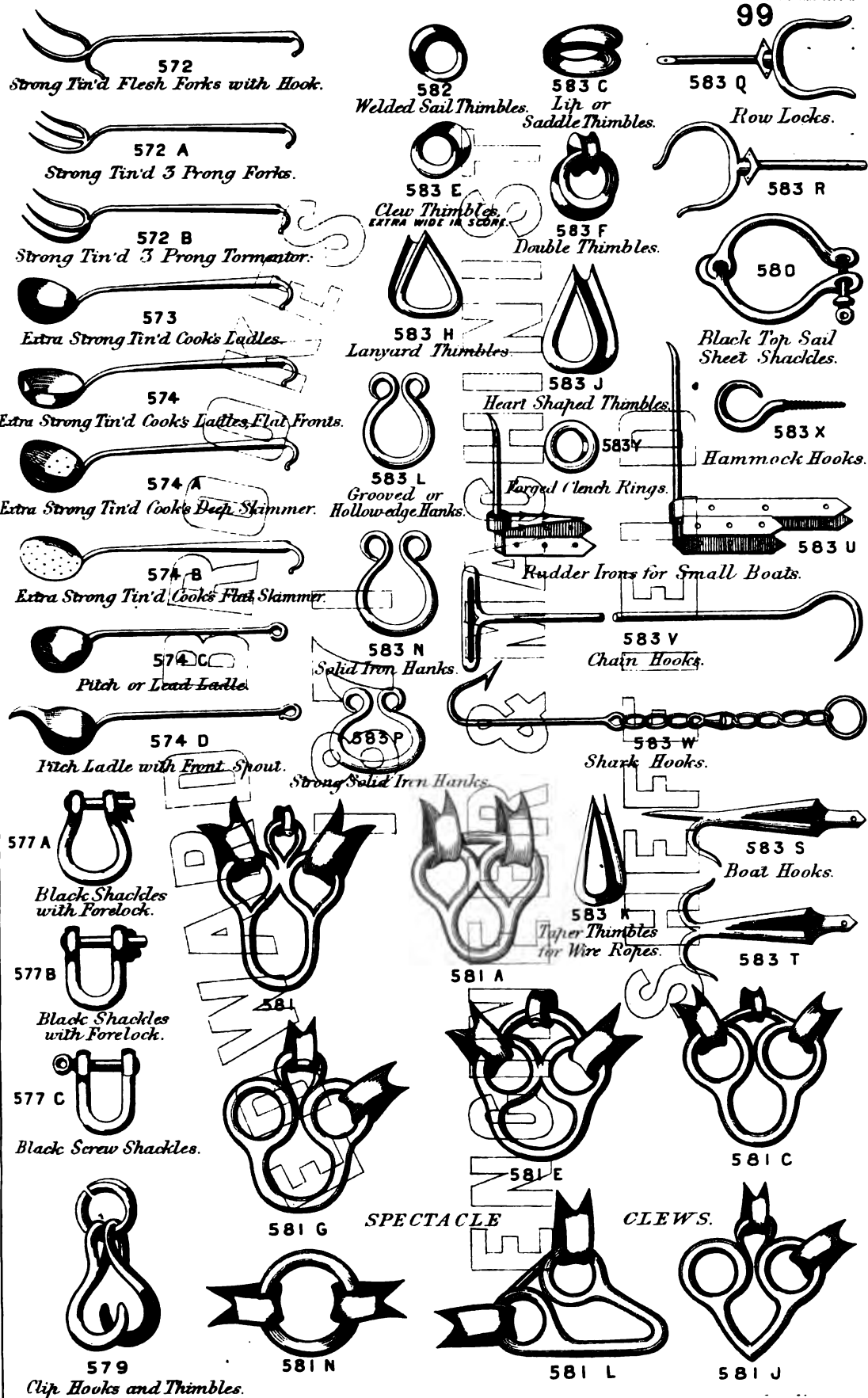
## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count. No.

		1 to 1½	1½	2	2½	2½	2½	3	3½	3½	3½	4	inches.
583L	Grooved or Hollow edge Hanks, Blk.	11/6	12/3	14/6	16/9	19/3	22/0	25/0	28/9	33/6	38/6	43/3	per gross.
	Ditto ditto, Galvanized	13/9	16/3	18/6	21/4	24/0	27/4	31/3	36/0	43/3	49/3	55/3	"
583M	Strong Hanks, 2 inches to 4 inches, Grooved, Black, 43/9; Galvanized, 54/6 per cwt.												
	Ditto ditto, Solid, ditto, 33/6 ditto 43/3												"
		1 to 1½	1½	2	2½	2½	2½	3	3½	3½	3½	4	inches.
583N	Solid Iron Hanks, Black	10/3	10/9	12/0	13/9	16/9	19/3	22/3	25/9	30/0	34/9	38/6	per gross.
	Ditto, Galvanized	13/0	13/9	16/6	18/0	21/3	24/3	27/6	31/9	36/6	43/3	49/3	"
583P	Strong Solid Iron Hanks, Black, 33/6; Galvanized, 43/3 per cwt.												
			2½		3		3½		3½		4		inches.
583Q	Row Locks, Black		9/0		9/3		9/6		10/0		10/9		per dozen.
	Ditto, Galvanized		10/0		10/6		11/0		11/6		12/3		"
583R	Ditto, Black		10/3		10/6		11/0		11/6		12/3		"
	Ditto, Galvanized		11/0		11/9		12/6		13/3		15/4		"
		No.	1	2	3	4	5						
583S	Boat Hooks, Black		6/0	6/6	7/6	9/0	11/0						per dozen.
	Ditto, Galvanized		6/6	7/6	8/9	10/6	12/6						"
583T	Ditto, Black		7/3	7/9	8/9	10/3	12/0						"
	Ditto, Galvanized		7/9	8/9	10/0	11/9	13/9						"
583U	Rudder Irons, for small Boats, 12/0, 13/3, 16/6, 18/0 per set.												
583V	Chain Hooks, 27/6 per cwt.												
583W	Shank Hooks, 15/0 per dozen.												
					4½		5		5½				inches.
583X	Hammock Hooks, Black				1/11		2/3		2/6				per dozen.
	Ditto ditto, Tinned or Galvanized				2/6		3/0		3/6				"
		½	¾	¾	¾		1	1½	1½	1½	1½		inch.
583Y	Forged Clench Rings	4/6	5/0	6/0	6/8	per gross.	42/0	42/0	39/6	39/6	39/6		per cwt.
													Galvanizing, 9/6 per cwt., net.

FISH GRAINS.

		5	6	6½	inches.						
Bright and Improved Fish Grains		33/6	34/9	36/0	per doz.						
Black ditto		28/9	30/0	31/3	"						
Solid Black ditto		26/6	27/6	29/0	"						
Solid Bright ditto		28/9	30/0	31/3	"						
Solid Harpoons, 27 inches to 30 inches, 21/6 per dozen.											
Winged ditto, 33/6 per dozen.											
Moveable Heads, with Rings, 31/3 per dozen.											
		4	5	6	7	8	9	10	11	12	inches.
Sail Prickers		6/0	6/6	7/0	7/6	8/0	9/3	10/6	11/9	13/0	per doz.
			4	5	6	7					prongs.
Eel Spears			25/6	32/0	37/6	43/0					per doz.



## No.

**IRON SAW BOWS, Single Notted, (without Webs.)**

**IMPROVED PATTERN.**

**DOUBLE NUTTED.**

## HAND, PANEL, RIPPING, AND GRAFTING SAWS.

586 G. S. or C. S. Grafting Saws, same price as 584 or 585.

Fine-toothed Saws, 10 to 12 points, 2/0; above 12 points, 3/0 per dozen extra, gross.

10	12	14	16	18	20	22	24	inches.
----	----	----	----	----	----	----	----	---------

**Polished Plates and Backs, to 18 inches, 48/0 per dozen extra, gross.**

**Mahogany Handles, to 12 inches, 7/0; to 14 inches, 8/0 per dozen extra, gross.**

**French-polished Handles, 6/0 per dozen extra, gross.**

18 | 20 | 22 | 24 | 26 | inches.

**COMPASS OR LOCK SAWS.**

## | 10 | 12 | 14 | 16 | 18 | 20 | inches.

### CAST STEEL WEBS FOR CUTTING IRON OR BRASS.

**FRET SAWS.**

599 Fret Saws, assorted to 9 inches, 6/6; to 12 inches, 7/6; to 14 inches, 9/6 dozen.

Fret Saws, if Set and Sharped, 1/6 dozen extra, gross.

600	Double Fret Saws, 9 to 12 inches, 13/0 per dozen.
-----	---

	19/5	19/5	17/5	15/5	13/5
Steel Doctors or Calico Webs, 42 by 2½ inches each .....	21	20	19	18	Wire Gauge.

|85/|91/|97/|103/|109/|115/|dozen.

	23	22	21	20	19	18	Wire Gauge.
Composition Doctors or Calico Webs, 33 by 24 inches each ..	23	22	21	20	19	18	Wire Gauge.

|99/6|107/|114/|121/6|129/|137/|dozen.

	25/8	18/7	11/7	11/8	12/7	18/7	WIRE GAUGE.
Composition Doctors or Calico Webs, 42 by 24 in. each...	23	22	21	20	19	18	Wire Gauge.

|107/|114/|123/|134/|145/|158/|doren

	107/	111/	125/	131/	140/	155/	Wash.
German Silver Doctors or Calico Webs, 33 by 2½ in. each	23	22	21	20	19	18	Wire Gauge.

|127/6|136/|147/|158/|171/6|186/|dozen

	127/8	100/	111/	100/	112/8	100/	dozen.
German Silver Doctors or Calico Webs, 42 by 2½ in. each	23	22	21	20	19	18	Wire Gauge.

602	18/0	18/6	19/0	11/1	13/1	15/1	18/1	20/1	24/1	27/1	30/1	32/1	34/1	36/1	39/1	42/1	45/1	48/1	51/1	54/1	57/1	per dozen
-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----------

8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	inches
---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--------

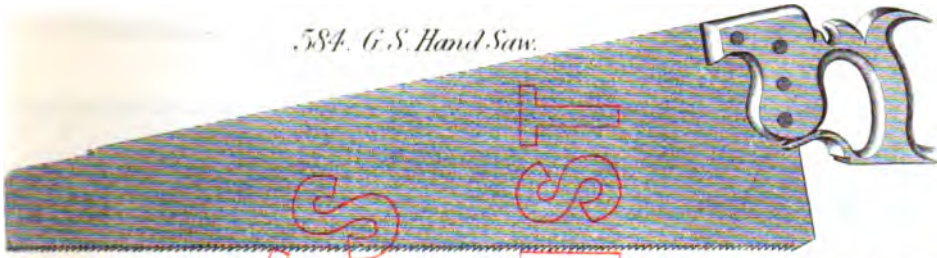
28 | 30 | 32 | 34 | 36 | 39 | 42 | 45 | 48 | 51 | 54 | 57 | 60 | inches.

603	Cast Steel .....	35/	39/	44/	46/	54/	61/	68/	79/	103/	109/	113/	123/	140/	down.
604	German Steel ..	31/	35/	40/	42/	50/	55/	60/	73/	94/	100/	104/	114/	130/	

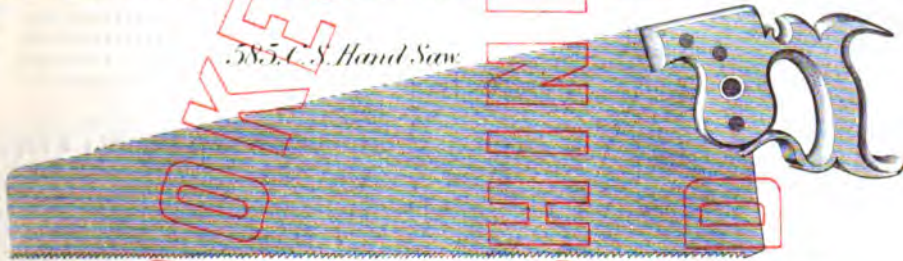
Billet or Canada Webs, Setting and Sharpening, to 28 inches, 6/6; above 28 to 34 inches, 7/0; above 34 to 45 inches, 10/0 per dozen extra, gross.



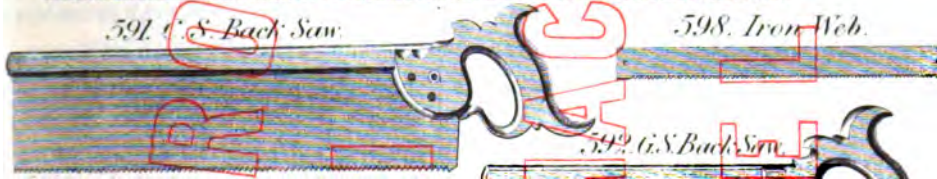
584. G. S. Hand Saw.



585. C. S. Hand Saw.



591. C. S. Back Saw.



598. Iron Web.

599. G. S. Back Saw.

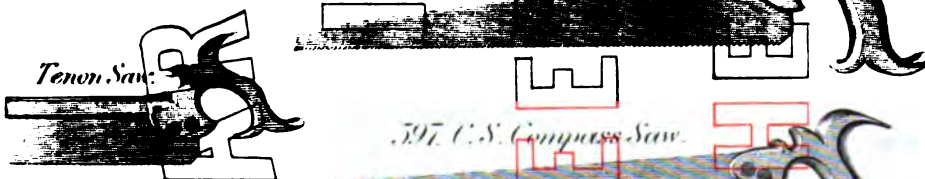


586. C. S. Grafting Saw.



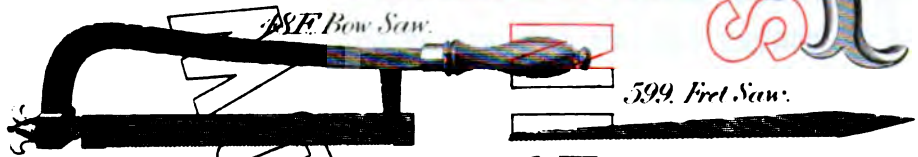
594. G. S. Table Saw.

Tenon Saw.



597. C. S. Compass Saw.

596. Bow Saw.



599. Fret Saw.

601. Doctor or Chain Web.



602. Turning or Chain Web.



603 C. S. Billet or Chain Web.



Dts-  
COUNT.

No.

SAWS.—Continued.

FELLOE SAWS.

	4	4½	5	5½	6	6½	7	feet.	
605	Cast Steel .....	8/0	9/0	10/0	12/0	14/0	15/0	18/0	each.

CAST STEEL MULEY SAWS.

606	7 feet long by 12 inches wide, 4 and 6 Gauge.....	66/0 each.
	7½ ditto ditto ditto .....	70/0 "
607	7 ditto by 14 inches wide, ditto .....	74/0 "
	7½ ditto ditto ditto .....	80/0 "

PIT AND FRAME SAWS.

	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	feet.	
608	Cast Steel, Warranted .....	19/0	21/0	23/0	26/0	29/0	32/0	35/0	40/0	46/0	50/0	58/0	66/0	76/0	each.
609	Cast Steel.....	16/6	17/6	19/6	21/0	24/0	26/0	28/0	33/0	39/0	46/0	54/0	62/0	72/0	"
610	German Steel .....	15/0	16/0	18/0	19/6	22/0	24/0	26/0	30/0	36/0	42/0	50/0	58/0	68/0	"
611	Cast Steel, Warranted .....	19/0	21/0	23/0	26/0	29/0	32/0	35/0	40/0	46/0	50/0	58/0	66/0	76/0	"
612	Cast Steel.....	16/6	17/6	19/6	21/0	24/0	26/0	28/0	33/0	39/0	46/0	54/0	62/0	72/0	"
613	German Steel .....	15/0	16/0	18/0	19/6	22/0	24/0	26/0	30/0	36/0	42/0	50/0	58/0	68/0	"

Pit and Frame Saws, exceeding 11 inch Heel, to advance 2/0 per inch extra, gross.

Frame Saw Buckles and Tillers, 6/0 to 10/ per pair.

Pit Saw ditto ditto, 2/6 per lb.

CROSS CUT SAWS.

	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	feet.	
614	Cast Steel, Warranted .....	14/0	16/0	19/0	20/0	24/0	26/0	28/0	34/0	42/0	48/0	58/0	66/0	76/0	each.
615	Cast Steel.....	13/0	15/0	18/0	19/0	22/0	24/0	26/0	31/0	39/0	45/0	54/0	62/0	72/0	"
616	German Steel .....	12/0	14/0	17/0	18/0	20/0	22/0	24/0	28/0	36/0	42/0	50/0	58/0	68/0	"

RUSSIAN FRAME SAWS.

	5	5½	6	6½	7	feet long.	
617		9½	10	10½	11	12	inches wide.
		19/0	21/0	24/0	26/0	30/0	each.

TUTTLE'S PATENT CROSS CUT SAWS.

	4	4½	5	5½	6	6½	7	feet.	
619		24/0	26/0	29/0	32/0	35/0	38/0	44/0	each.

The Patent Cross Cut Saw is sent out set and sharpened ready for use.

The Patent Cross Cut Saw is made of every size, with large or small Teeth.

CAST STEEL STAVE SAWS.

	4½	5	5½	6	feet.	
620		17/0	19/0	21/0	24/0	each.

Saw and Sheet Steel Gauge .....

7/9 each.

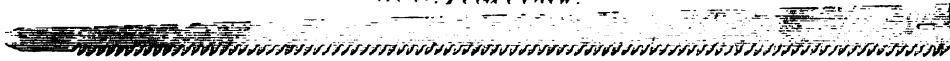
CONVEX, SWAGED, OR BEVELLED CIRCULAR SAWS, FOR VENEERING.

	15	16	18	20	inches.
630	46/0	49/0	57/0	71/0	each, 9 Gauge, by 19 Gauge on Tooth, and 2½ inch Swage.
	24	26	28	30	inches.
631	97/0	113/0	129/0	145/0	each, 9 Gauge, by 19 Gauge on Tooth, and 3½ inch Swage.
	24	28	32	36	inches.
632	103/0	127/0	167/0	200/0	each, 8 Gauge, by 19 Gauge on Tooth, and 4 inch Swage.
	24	28	32	36	inches.
633	111/0	143/0	175/0	210/0	each, 7 Gauge, by 19 Gauge on Tooth, and 4 inch Swage.
	24	28	32	36	inches.
634	117/0	145/0	177/0	214/0	each, 7 Gauge, by 19 Gauge on Tooth, and 5 inch Swage.
	34	38	42	inches.	
635	240/0	306/0	386/0	each, 5 Gauge, by 19 Gauge on Tooth, and 6 inch Swage.	

If stronger than the above-named Gauges, will be charged extra.

All Saws of less dimensions than those in the List, to be charged the same price as the smallest size named.

605. Felloe Saw.



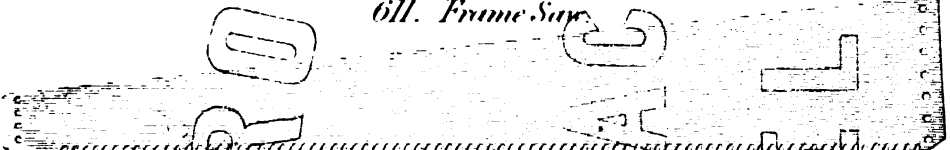
606. Muley Saw.



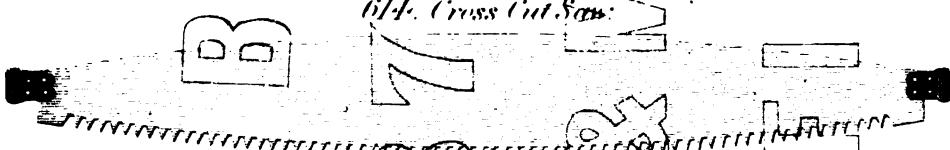
608. Pit Saw.



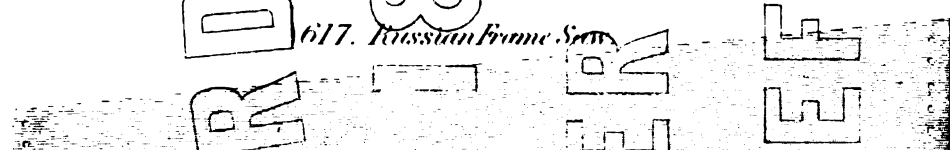
611. Frame Saw.



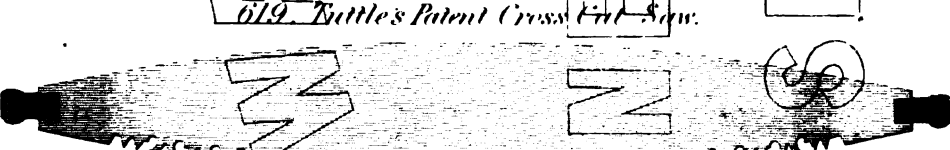
614. Cross Cut Saw.



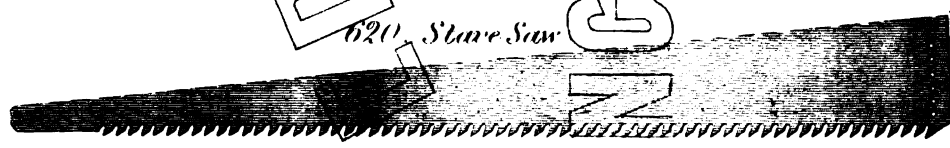
617. Russian Frame Saw.



619. Tuttle's Patent Cross Cut Saw.

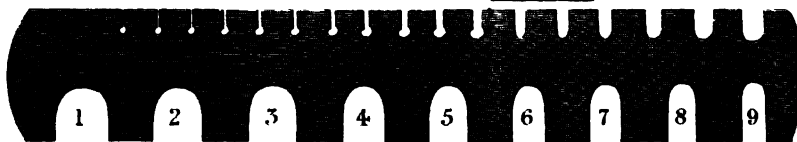


620. Slave Saw.



621. Saw & Sheet Steel Gauge.

26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10



# THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

SAWS.—Continued.

RUSSIAN CROSS CUT SAWS.

	3½	4	4½	5	feet long.
618	6½	7½	8	8½	inches wide.
	9/0	13/0	15/0	18/0	each.

VENEER WEBS, WITH OR WITHOUT TEETH.

622	3½	4	4½	5	5½	6	feet.
	10/0	12/0	14/0	16/0	18/0	20/0	each.

If above 4½ inches wide, to advance 1/8 per ½ inch extra, gross.

CAST STEEL MILL SAW WEBS.

	15 Gauge.			14 Gauge.			13 Gauge.		
	3½	4	4½ feet.	5	5½	6 feet.	6½	7 feet..	
628	4 in. wide, 9/6	11/0	12/0 each.	6 in. wide, 18/6	20/6	22/0 each.	7 in. wide ....	26/6	28/6 each.
	4½ ditto 10/0	11/6	12/6 "	6½ ditto 19/6	21/6	23/0 "	7½ ditto ....	28/0	29/6 "
	5 ditto 10/6	12/0	13/0 "	7 ditto 20/6	22/0	24/0 "	8 ditto ....	29/6	31/0 "

If wider or stronger than the dimensions named, the prices advance proportionately.

MILL SAWS.

	4½	5	5½	6	6½	7	7½	8	feet.
624	Cast Steel .....	24/0	26/0	28/0	32/0	36/0	40/0	46/0	52/0 each.
625	German Steel.....	20/0	22/0	24/0	26/0	29/0	33/0	38/0	44/0 "

Mill Saws stronger than 8th Gauge, to be charged to 5½ feet, 2/0; and above 5½ feet, 3/0 per Gauge extra, gross. Mill Saw Buckles and Tillers, 6/0 to 10/0 per pair.

C. S. Mill Saws, Hardened and Tempered, and stronger than the 10th Gauge, to be charged to 5½ feet, 2/0; above 5½ feet, 3/ per Gauge extra, gross.

CAST STEEL IVORY BLADES.

626	12	14	16	18	20	22	24	26	28	30	33	36	38	40	inches.
	18/0	21/0	24/0	27/0	30/0	33/0	36/0	39/0	42/0	45/0	49/0	54/0	57/0	60/0	dozen.

CAST STEEL STONE SAWS.

627	5	5½	6	6½	7	7½	8	feet.
	24/0	26/0	28/0	31/0	34/0	38/0	42/0	each.

If exceeding 9 inches wide, 2/0 per inch extra, gross.

CAST STEEL SPAN WEBS.

628	12	14	16	18	20	22	24	26	28	30	33	36	38	40	inches.
	18/0	21/0	24/0	27/0	30/0	33/0	36/0	39/0	42/0	45/0	49/6	54/0	57/0	60/0	dozen.

PATENT SOLID ENDLESS BAND SAWS, made any length to order.

WARRANTED CAST STEEL CIRCULAR SAWS.

629	4	4½	5	6	7	8	9	10	12	14	16	18	20	22	24	26	28	30	inches.
	4/6	5/0	6/0	7/0	8/0	9/6	11/0	13/0	16/0	20/0	24/0	30/0	36/0	42/0	48/0	56/0	66/0	76/0	each.
	..	..	..	..	..	..	..	..	17	17r	16	15	14	14r	13	13	12	12	gauge.
	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	inches.			
	88/0	104/0	120/0	145/0	160/0	180/0	215/0	240/0	270/0	380/0	420/0	480/0	570/0	620/0	680/0	each.			
	12	12r	11	11	11r	10s	10	9s	9	8s	8	7	6	6s	5	gauge.			

Circular Saws, stronger than the Gauge named, the prices advance proportionately. Improved Cast Steel Circular Saws, for Cutting Iron, same prices as above.

INSTRUCTIONS TO BE OBSERVED IN ORDERING CIRCULAR SAWS.

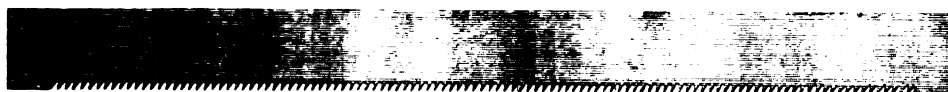
First, give the Thickness required, by stating the Number of the Gauge. Secondly, give the Number or form of the Tooth required. Thirdly, give the size of the Tooth required, by stating the distance from Point to Point of Tooth, or the Number of Points within the inch, if small Teeth. Fourthly, give the Diameter of the Hole required for Spindle of Circular Saws.

CIRCULAR PAPER KNIVES, with Bevil or Square Edge.

	4	5	6	7	8	inches diameter.
	60/0	80/0	100/0	150/0	200/0	per dozen.



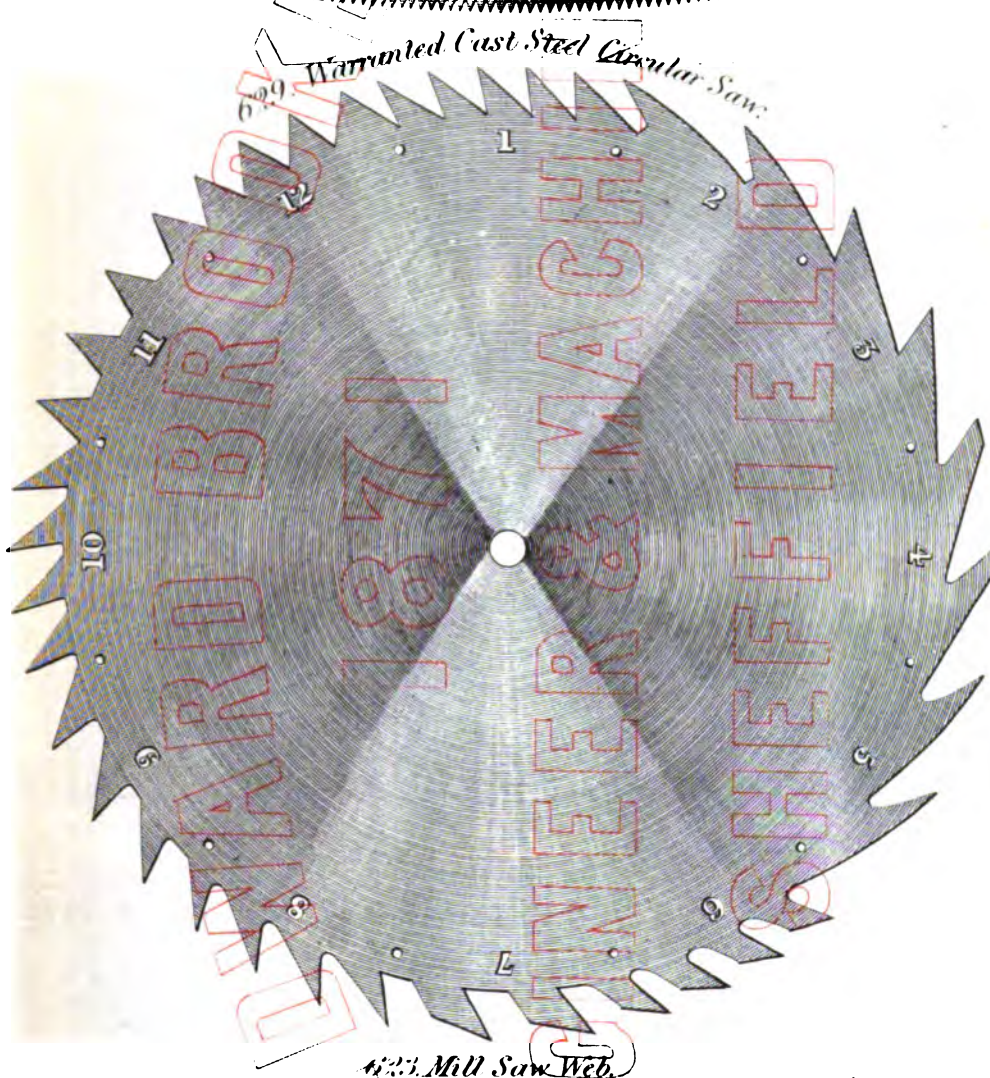
622. Veneer Web.



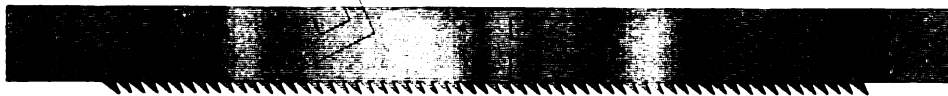
618. Russian Cross Cut Saw.



Warranted Cast Steel Circular Saw.



623. Mill Saw Web.



624. Mill Saw.





THE ILLUSTRATED SHEFFIELD LIST.

[illegible]



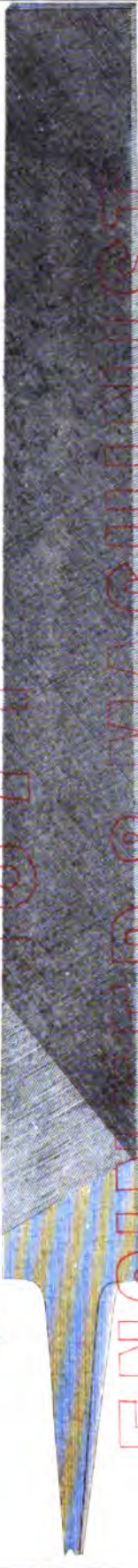
641. 1/2 HALF ROUND BASTARD 8 INCH.



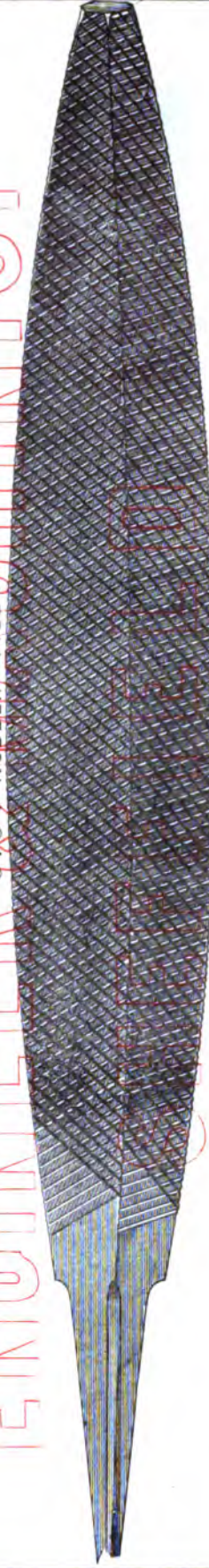
636. FLAT BASTARD 8 INCH



646. HAND SMOOTH



676. RUBBER FILE



643. THREE SQUARE BASTARD







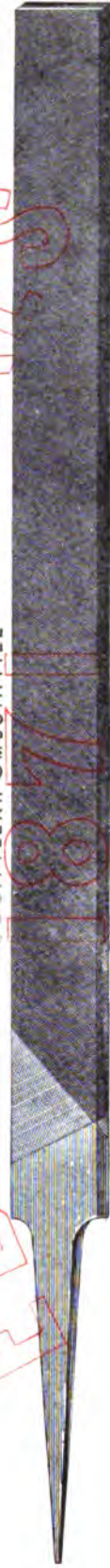
040A. PARALLEL NEW CUT FOR BRASS



638. MILL SAW BASTARD



650. PILLAR SMOOTH FILE



659. CROSS SMOOTH DOUBLE CUT.



658. FEATHER-EDGE SMOOTH



657. CANT SECOND CUT







667 A TAPER SAW FILE DOUBLE CUT



668 BLUNT SINGLE CUT HAND SAW FILE



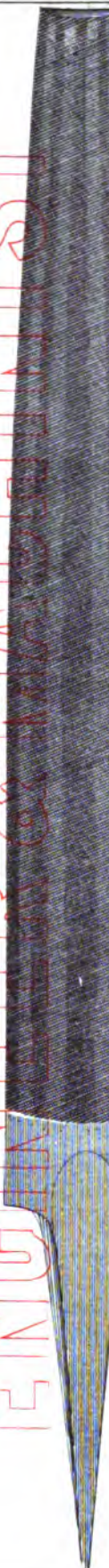
669 GULLET FILE



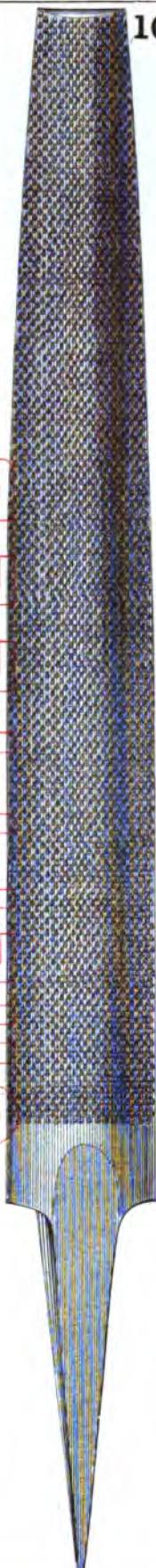
670 DOUBLE CUT FRAME SAW FILE



649 CABINET FILE



648 CABINET RASP







645. Tanged Horse Rasp.



647. Hair-Round Wood Rasp.



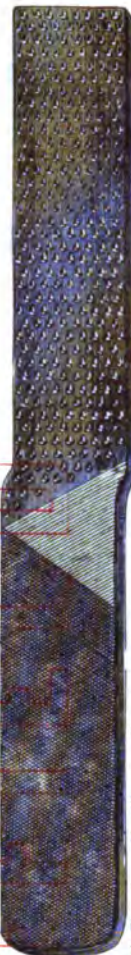
670. Horse Mouth Rasp.



680. Shoe Rasp.



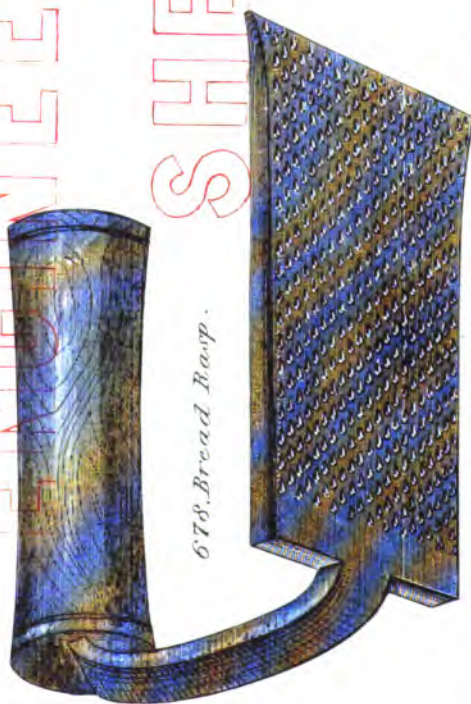
681. Hair-Round Shoe Rasp.



681A. Patent Shoe Rasp.



678. Broad Rasp.







645. Tanged Horse Rasp.



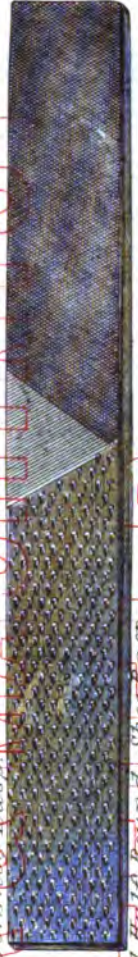
647. Half Round & Wood Rasp.



679. Horse Mouth Rasp.



680. S'ed Rasp.



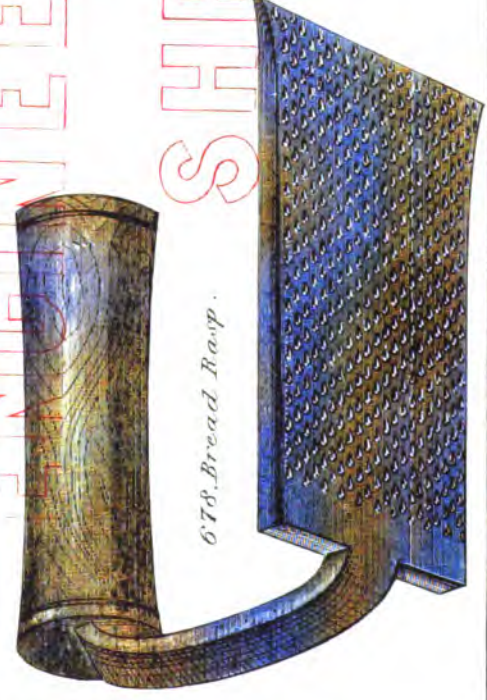
681. Half Round Shoe Rasp.



681A. Patent Shoe Rasp.



678. Broad Rasp.



Dis-  
count.

No.

SKATES.

		8	9	10	11	inch
682	Common Skates, Plain .....	2/6	2/9	3/3	3/9	pair.
683	Ditto, Fluted .....	3/0	3/3	3/9	4/3	"
684	Middle Sort Skates, Steel, Plain .....	3/4	3/8	4/2	4/8	"
685	Ditto ditto, Fluted .....	3/10	4/2	4/8	5/2	"
686	Better Sort Skates, White Wood, Plain, all sizes .....				6/6	"
687	Ditto ditto, Fluted, ditto .....				6/6	"
688	Ditto ditto, Coloured Wood, Plain, ditto .....				6/6	"
689	Ditto ditto, ditto, Fluted, ditto .....				7/6	"
690	Best Sort Skates, White Wood, Plain, ditto .....				7/6	"
691	Ditto ditto, ditto, Fluted, ditto .....				8/6	"
692	Ditto ditto, Coloured Wood, Plain, ditto .....				8/6	"
693	Ditto ditto, ditto, Fluted, ditto .....				9/6	"
694	Ditto ditto, Inlaid, Plain, ditto .....				11/0	"
695	Ditto ditto, ditto, Fluted, ditto .....				12/0	"
696	Ditto ditto, Inlaid with Star, Plain, ditto .....				14/0	"
697	Ditto ditto, ditto, Fluted, ditto .....				15/6	"
698	Ditto ditto, London Pattern, Plain, ditto, Polished Woods..				9/0	"
699	Ditto ditto, ditto, Fluted, ditto ditto .....				10/0	"
700	Improved ditto, London Club, Plain ditto .....				10/0	"
701	Improved Patent Spring Skates, Strapped, complete .....				16/0	"

Boys' Straps, 1/9; Men's, 2/3; Best, 3/.

Forbes's Acme Patent Self-adjusting Skates,

per pair.

JOINERS' TOOLS.

SQUARES.

		3	4½	6	7½	9	10½	12	15	18	21	24	30	in.
702	Plated Squares ..	14/0	17/6	21/0	26/0	32/0	37/0	42/0	58/	74/	90/	106/	122/	doz.
703	Best ditto ..	18/6	22/6	26/0	31/0	38/0	43/0	48/0	68/	84/	100/	116/	132/	"
704	Ditto ditto, with Levels .....					76/0	81/0	86/0	102/	116/	132/	150/	172/	"
705	Ditto ditto, T Drawing Squares .....					56/0	64/0	70/0	84/	104/	124/	144/	168/	"
706	London Pattern Bricklayers' Squares, ¾ dozen.													
707	Brass Stocked Sash Squares, 2½ inches, 18/0 dozen.													

MITRE SQUARES.

		8	10	12	14	16	inches.
708	Plated Mitre Squares .....	34/0	40/0	48/0	55/0	64/0	dozen.
709	Best ditto ditto .....	50/0	58/0	66/0	77/0	88/0	"

TURNSCREWS.

		3	4	5	6	7	8	9	10	11	12	in.
771	Cast Steel Black London Pattern Turnscrows, let in Strong Brass } Ferrules .....	7/0	8/6	10/0	12/0	14/6	17/0	19/6	23/0	27/0	31/0	dоз.
772	Ditto Bright ditto .....	8/0	9/6	11/0	13/0	16/0	18/6	21/0	25/6	29/0	33/0	"
773	Ditto Box or Ebony Handles .....	12/0	15/0	18/0	21/0	24/0	28/0	32/0	36/0	41/0	46/0	"
774	Ditto ditto, Worked Oval .....	15/6	17/6	21/0	25/0	29/0	34/0	39/0	44/0	49/0	54/0	"
775	Ditto ditto, Gentlemen's Fancy Turnscrows, assorted to 4 inches, 7/.											
776	Black Turnscrows, Common .....	4/0	5/0	6/6	8/0	. .	. .	. .	. .	. .	. .	"
777	Bright ditto ditto .....	4/6	5/6	7/0	9/0	. .	. .	. .	. .	. .	. .	"
778	Cast Steel London Pattern Turnscrows, } Rosewood Handles, Polished Blades } and German Silver Ferrules .....	15/0	18/0	21/0	24/0	28/0	32/0	36/0	40/0	46/0	52/0	"

BRACES, WITH BITS, COMPLETE.

		With	12	18	24	30	36	42	48	54	60	bits.
800	BEST BRACES, 9/ EACH.											
801	Cast Steel Black Bits .....	13/8	16/0	18/4	20/11	23/9	26/1	28/8	31/8	35/2		each
802	Ditto Bright do. ....	14/7	17/4	20/2	23/2	26/6	29/3	32/4	35/9	39/9		"
803	Ditto Straw Colour .....	15/3	18/4	21/6	24/10	28/6	31/7	35/0	38/9	43/1		"
804	IMPROVED PLATED BRACES, 13/ each; if with Improved Brass Neck, 2/ extra.											

IMPROVED PLATED BRACES, WITH BITS, COMPLETE.

		With	12	18	24	30	36	42	48	54	60	bits.
806	Cast Steel Black Bits .....	17/8	20/0	22/4	24/11	27/9	30/1	32/8	35/8	39/2		each
806	Cast Steel Bright Bits .....	18/7	21/4	24/2	27/2	30/6	33/3	36/4	39/9	43/9		"
807	Ditto Straw Colour ditto .....	19/3	22/4	25/6	28/10	32/6	35/7	39/0	42/9	47/1		"

Ebony, Box, or Rosewood Plated Braces, 15/ extra to Plated Beech.

Coopers' Braces .....

Best ditto .....

Best ditto, with Lignum Head .....

808 IMPROVED SCOTCH IRON BRACES, 14s. EACH.

		With	12	18	24	30	36	42	48	bits.
809	Cast Steel Black Bits .....	20/6	22/6	24/6	26/9	29/3	31/3	33/6		each
810	Ditto Bright Bits .....	21/5	23/10	26/4	29/6	32/0	34/5	37/2		"
811	Ditto Straw Colour Bits .....	22/1	24/10	27/8	30/8	34/0	36/9	39/10		"

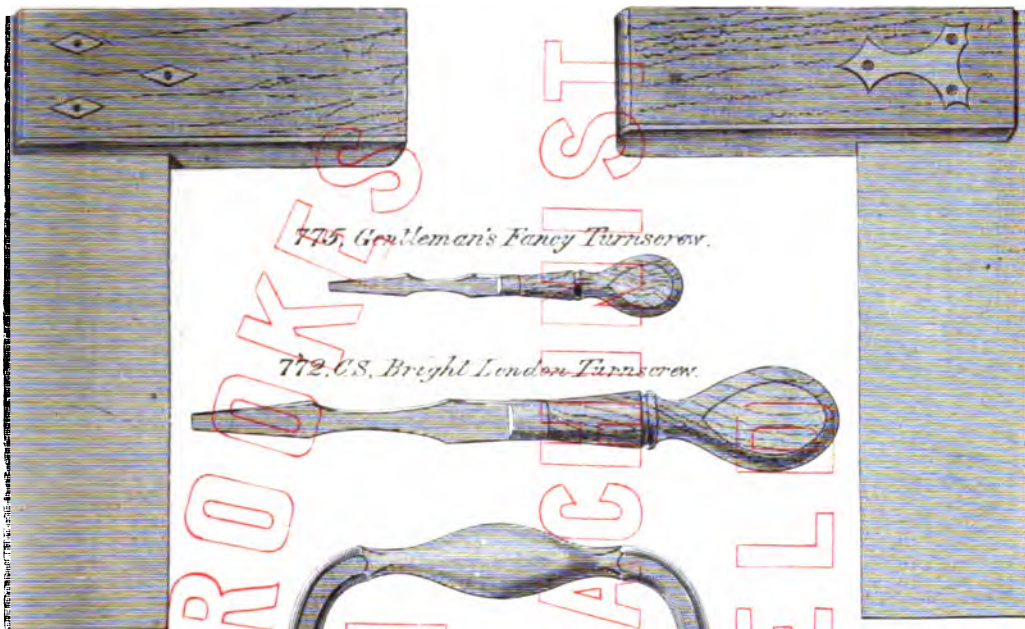
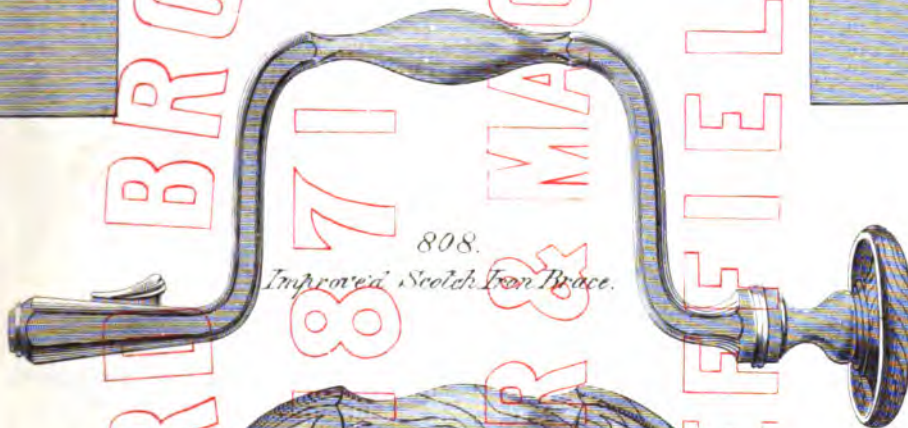
Best Collars, for Sash Bits, 1/ per pair extra. Best Brace Heads, 24/ per doz. Improved Brass Neck, 48 per doz.

Black Bits, Cleaned out and Sharped, 4d. per doz. extra. Best Brass Pads, 80/ per doz.

Gentlemen's Braces and Bits, same price as Carpenters'.

Bright Bits, 11d. per doz. more than Black; Straw Colour, 8d. per doz. more than Bright.

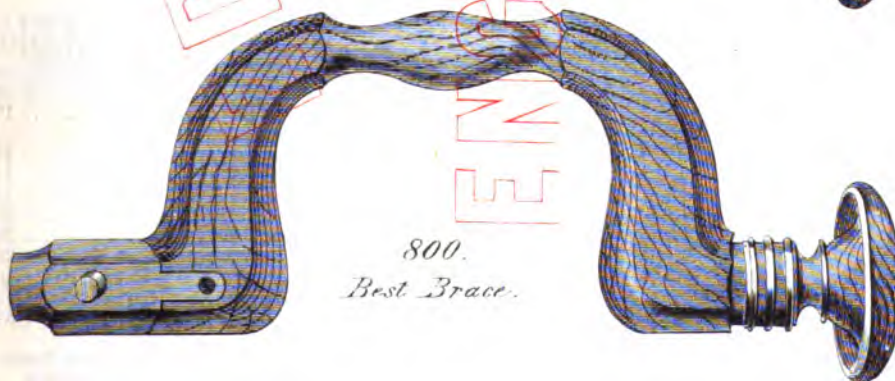


702. *Plated Square.*703. *Best Plated Square.*775. *Gentleman's Fancy Turn screw.*772. *C.S. Bright London Turn screw.*

808.

*Improved Scotch Iron Brace.*

804.

*Improved Plated Brace.*

800.

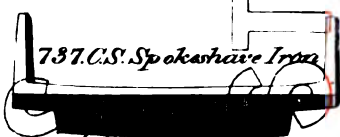
*Best Brace.*

Dis- COUNT.		JOINERS' TOOLS—Continued.											
No.		BEVILS.											
			7½	9	10½	12	15	inches.					
710	Plated T Bevils .....	22/0	24/0	26/0	28/0	36/0	dozen.						
711	Best ditto .....	26/0	30/0	34/0	38/0	46/0	"						
712	Best Improved Sliding ditto .....	32/0	36/0	40/0	44/0	56/0	"						
713	Plated Angle Bevils .....	24/0	26/0	29/0	32/0	..	"						
714	Best ditto .....	30/0	34/0	38/0	42/0	..	"						
If with Thumb Screws, 4/ per dozen extra; Wing Screws, 6/ extra.													
715	Best London Pattern Bricklayers' Bevils, 34/6 per dozen.												
		BOAT BUILDERS' BEVILS.											
			8	10	12	inches.							
716	Boat Builders' Bevils, 2 Brass Blades .....	18/0	22/0	26/0	dozen.								
717	Ditto Plated ditto .....	26/0	30/0	36/0	"								
718	Ditto Best ditto .....	36/0	42/0	48/0	"								
		BEECHWOOD SPOKESHAVES, WITH CAST STEEL IRONS.											
		To	2½	3	3½	4	4½	5	5½	6	inches.		
719	Beechwood Spokeshaves .....	12/0	14/0	16/0	18/0	22/0	26/0	30/0	36/0	dozen.			
720	Ditto ditto Plated ditto .....	15/0	18/0	20/0	23/0	27/0	32/0	37/0	42/0	"			
721	Ditto ditto ditto, with Ivory ..	22/0	26/0	30/0	..	..	..	..	..	"			
722	Ditto Wheelers' or Coachmakers' ..	16/0	18/0	20/0	24/0	28/0	32/0	36/0	40/0	"			
723	Ditto Plated Screw Iron .....	34/0	38/0	40/0	46/0	50/0	56/0	64/0	72/0	"			
724	Ditto London Pattern .....	16/0	20/0	24/0	28/0	..	..	..	..	"			
725	Ditto do. Wheelers' or Coachmakers' ..	22/0	26/0	30/0	34/0	38/0	42/0	..	..	"			
726	Ditto Coopers' Shaves, with Best Irons ..	..	..	..	32/0	33/0	34/0	36/0	40/0	"			
727	Ditto ditto Bent, or Inside .....	..	..	..	46/0	47/0	48/0	50/0	54/0	"			
Ditto, ditto, if Boxed in, 5/ per dozen extra to 5 inches; all above, 6/ per dozen extra.													
		BOXWOOD SPOKESHAVES, WITH CAST STEEL IRONS.											
		To	2½	3	3½	4	4½	5	5½	6	inches.		
728	Boxwood Spokeshaves .....	18/0	20/0	22/0	26/0	36/0	..	..	..	dozen.			
729	Ditto Plated Spokeshaves .....	23/0	26/0	28/0	33/0	43/0	..	..	..	"			
730	Ditto ditto, with Ivory .....	29/0	34/0	40/0	48/0	..	..	..	..	"			
731	Ditto Screw Iron Spokeshaves ..	38/0	42/0	48/0	58/0	..	..	..	..	"			
732	Ditto ditto, Plated ditto ..	43/0	48/0	54/0	66/0	..	..	..	..	"			
733	Ditto London Pattern .....	21/0	26/0	30/0	36/0	..	..	..	..	"			
734	Ditto Wheelers' or Coachmakers' ..	28/0	32/0	38/0	44/0	50/0	56/0	..	..	"			
		EBONY OR OTHER FANCY HARDWOOD SPOKESHAVES, WITH CAST STEEL IRONS.											
		To	2½	3	3½	4	4½	5	5½	6	inches.		
735	Ebony or Fancy Hardwood Spokeshaves ..	21/0	24/0	26/0	..	..	..	..	..	dozen.			
736	Ditto ditto, London Pattern ....	24/0	29/0	34/0	..	..	..	..	..	"			
		CAST STEEL SPOKESHAVE IRONS.											
		To	2½	3	3½	4	4½	5	5½	6	inches.		
737	C. S. Joiners' Spokeshave Irons .....	5/3	5/9	6/3	6/9	8/0	9/0	10/6	13/0	dozen.			
738	Ditto ditto London Pattern ....	6/6	7/0	8/0	9/0	..	..	..	..	"			
739	Ditto Wheelers' or Coachmakers' .....	6/0	6/9	7/6	8/6	9/6	10/6	11/6	14/0	"			
740	Ditto ditto London Pattern .....	8/0	9/0	10/6	12/6	14/0	16/0	18/0	20/0	"			
741	Best Coopers' Shave Irons .....	..	..	..	10/6	11/6	12/6	14/0	17/0	"			
		TURNING SAWS AND FRAMES.											
		To	10	12	14	16	18	20	inches.				
779	Turning Saws, in Beechwood Frames .....	44/0	50/0	56/0	66/0	77/0	88/0	dozen.					
780	Ditto, with Improved Box Handle, Brass Collar .....	52/0	60/0	66/0	78/0	90/0	104/0	"					
781	Beechwood Saw Frame Handles, to 18 inch, 16/0; above, 20/0 per dozen pairs.												
782	Boxwood ditto, to 18 inch, 20/0; above, 24/0												
788	Boxwood Octagon London Pattern ditto, to 18 inch ....	26/0	..										
			6	9	12	15	18	21	24	tools.			
788	Hollow Hand Pads .....	5/9	7/0	8/8	9/6	10/9	12/0	13/6	each.				
789	Best Improved Brad Awl Pads, 8 Tools .....	30/0 dozen.											
790	Middle ditto ditto .....	20/0 "											
791	Common ditto ditto .....	16/0 "											
792	Ebony and Rosewood ditto, 4/0 per dozen extra, gross.												
793	Best Hand Saw Sets .....	11/6 "											
794	Ditto, with Box or Hardwood Handles .....	13/0 "											
795	Ditto, with Fork or Turnscrew .....	14/0 "											
796	Best Slide Saw Sets .....	20/0 "											
797	Ditto, with Box Handles .....	24/0 "											
797A	Best Pit Saw Sets, 4 Gates, 13/0; 5 Gates, 16/0; 6 Gates, 20/0; extra Strong, 27/0; if Bright, 29/0												
			8	9	10	12	14	inches.					
798	Plated Spirit Levels .....	40/0	44/0	48/0	56/0	66/0	dozen.						
799	Ditto, both Sides .....	52/0	58/0	64/0	76/0	88/0	"						
Side View Spirit Levels, 8/0 per dozen extra; Brass ditto, 8/0.													
Common Scrapers, 8½ Blade, 8/0; Best Spring, 4½ Blade, 18/0; Scraper Blades, 1d. per inch; Cast Steel Scraper Steels, 3/6 per dozen; Scraper Steels, Hardwood Handles, 7/6 per dozen; ditto Beechwood, 5/6 per dozen.													

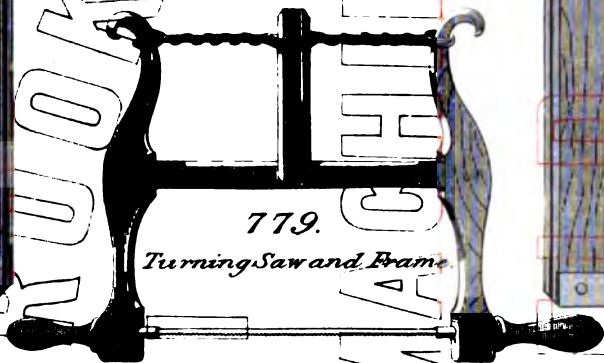
793. Best Hand Saw Set Turners and



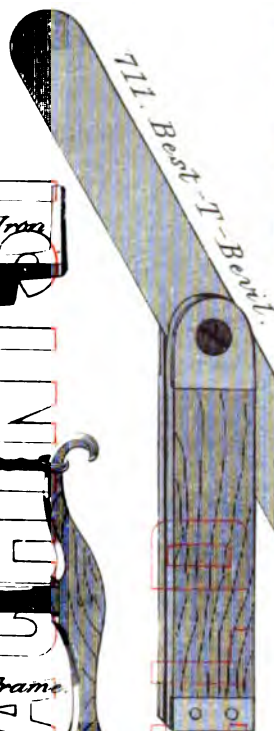
712.  
*Best Improved Sliding Bevil.*



737. C.S. Spokeshave Iron



779.  
*Turning Saw and Frame.*



711. Best T-Bevil.



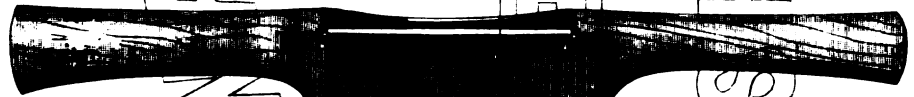
797.  
*Best Pit Saw Set.*



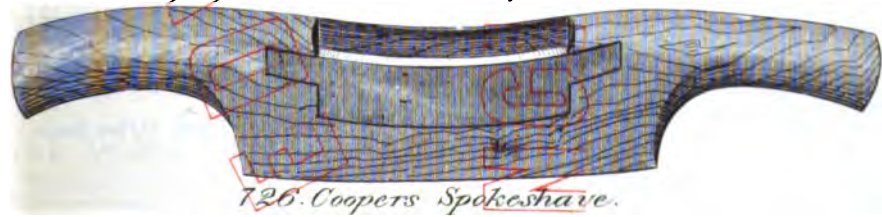
717. Plated Boat Builders Bevil.



720. Plated Spokeshave.



719. Beech-wood Spokeshave.



726. Coopers Spokeshave.



798. Plated Spirit Level.

DIS-  
COUNT.

JOINERS' TOOLS.—Continued.

No.

MARKING GAUGES.

742	Beechwood Marking Gauges .....	8/ per dozen.
743	Ditto Plated ditto .....	11/ "
744	Ditto Head Faced with Brass .....	18/ "
745	Ditto Head and Stem ditto .....	30/ "
746	Hardwood Marking Gauges .....	16/ "

CUTTING GAUGES.

747	Beechwood Cutting Gauges .....	10/ per dozen.
748	Ditto Plated ditto .....	13/ "
749	Hardwood Cutting Gauges .....	18/ "
750	Ditto Brass Hooped ditto .....	24/ "
751	Ditto Head Faced with Brass .....	33/ "
752	Ditto Head and Stem ditto .....	45/ "
753	New Cutting Gauges .....	30/ "
754	Ditto Head Faced with Brass .....	40/ "
755	Ditto Head and Stem ditto .....	50/ "
756	Improved Cutting Gauges .....	50/ "
757	Ditto Leather Cutters' Gauges .....	86/ "
758	Gauge Rowters, per Set of Eight .....	2/ "

MORTICE GAUGES.

759	Mortice Gauge, Split Stem .....	18/ per dozen.
760	Ditto Improved Split Stem .....	22/ "
761	Ditto Brass Slide .....	28/ "
762	Ditto Best ditto .....	34/ "
763	Ditto ditto Plated .....	40/ "
764	Ditto Head Faced with Brass .....	48/ "
765	Ditto Thumb or Turnscrew Slide .....	56/ "
766	Ditto Head Faced with Brass .....	68/ "
767	Ditto Reverse End Turnscrew Slide .....	64/ "
768	Ditto Patent, with Rack .....	104/ "
769	Improved Mortice Gauge, with Improved Stem .....	96/ "
770	Ditto Patent, with Rack .....	120/ "

Cabinet or Gents' Gauges, same price. Steel Faced Gauges, 6/ per doz. extra.

784	Small Saw Pads .....	15/ "
785	Large ditto .....	18/ "
786	Best Box .....	24/ "
787	Best Ebony .....	26/ "

CENTRE BITS, CAST STEEL.

	To	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	inches.			
812	Black .....	3/8	4/0	4/0	4/3	4/6	4/9	5/0	6/0	7/0	8/0	9/0	10/0	11/0	12/0	14/0	dozen.
812A	Round Centre Bits .....	4/8	5/0	5/0	5/3	5/6	5/9	6/0	7/0	8/0	9/0	10/0	11/0	12/0	13/0	14/0	"
813	Bright Centre Bits .....	4/7	4/11	4/11	5/2	5/5	5/8	5/11	7/2	8/2	9/2	10/2	11/4	12/4	13/4	15/4	"
814	Straw Colour .....	5/3	5/7	5/7	5/10	6/1	6/4	6/7	7/10	8/10	10/0	11/0	12/4	13/4	14/4	16/4	"

814A Saw Handle Centre Bits, 12/ per dozen.

C. S. Black Centre Bits, assorted,  $\frac{1}{8}$  to 1 inch, 24/ per doz.

NOSE AND SHELL BITS.

	To	$\frac{1}{8}$	$\frac{1}{4}$	3-16	$\frac{1}{2}$	5-16	$\frac{3}{4}$	7-16	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	inch.
815	C. S. Black Nose Shell or Spoon Bits .....	3/6	3/9	4/0	4/3	4/6	5/6	6/6	10/0	14/0	dozen.	
816	Ditto Black Sash and Table Bits ....	4/6	4/6	4/6	6/0	5/6	..	..	..	..	"	
817	Long Black Wheeler Bits .....	5/0	5/9	6/3	6/9	8/3	9/3	9/3	..	..	"	

C. S. Black Nose and Shell Bits, assorted,  $\frac{1}{8}$  to  $\frac{3}{4}$ , 4/ per dozen.

	To	$\frac{1}{8}$	3-16	$\frac{1}{2}$	5-16	$\frac{3}{4}$	inches.
818	C. S. Black Gimblet Bits .....	4/0	4/0	4/0	5/0	6/0	dozen.
819	Ditto ditto Taper Bits, to $\frac{3}{8}$ inch, 5/6; $\frac{1}{2}$ inch, 7/6; $\frac{3}{4}$ inch, 9/6; 1 inch, 11/6 per dozen.						
820	Ditto Bright ditto ditto, 6/5; ditto, 8/6; ditto, 11/; ditto, 13/ "						
821	Ditto Black Bed ditto, to 7-16th inch, 6/; $\frac{1}{2}$ inch, 7/ per dozen.						
822	Best Centre Cock ditto, to $\frac{3}{8}$ inch, 15/; $\frac{1}{2}$ inch, 16/; $\frac{3}{4}$ inch, 17/; 1 inch, 18/ per dozen.						
823	Ditto ditto, Plug ditto, $\frac{3}{8}$ in., 12/; $\frac{1}{2}$ in., 12/; $\frac{3}{4}$ in., 13/; 1 in., 14/; $1\frac{1}{8}$ in., 15/; $1\frac{1}{4}$ in., 16/ per doz.						
824	Black Floor Dowling Bits .....					4/6	dozen.
825	Ditto Brace Turnscrews .....					3/6	"
826	Ditto Flat Head Countersinks .....					4/0	"
827	Ditto Snail Horn ditto .....					4/3	"
828	Ditto Rose Head ditto .....					4/6	"
829	Cast Steel, Black, Square and Half-round Rinders .....					4/0	"
830	Ditto 5, 6, and 8 Side ditto .....					5/6	"
831	Cast Steel Bobbin Bits .....					5/6	"
832	Bright Bits, extra to Black .....					0/11	"
833	Straw Colour, ditto .....					1/7	"



1

THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

JOINERS' TOOLS.—Continued.

BRACE BITS, IN SETS, ASSORTED.

		12	18	24	30	36	42	48	54	60	bits.
834	C. S. Black Bits, assorted	4/0	6/0	8/0	10/3	12/9	14/9	17/0	19/8	22/10	per set.
835	Ditto, Bright ditto ditto	4/11	7/4	9/10	12/6	15/8	17/11	20/8	23/9	27/5	"
836	Ditto, Straw Colour ditto	5/7	8/4	11/2	14/2	17/6	20/3	23/4	26/9	30/9	"

CHAIR, BRUSH, AND COOPERS' DOWLING BITS.

		1 1/2	3-16	1/2	5-16	3/8	7-16	1/2	3/4	7/8	1	in.
837	Blk. Flat Shank Chairmakers' Bits	..	..	3/0	3/0	3/0	3/0	3/9	4/6	6/0	7/6	doz.
838	Ditto ditto Brushmakers' do.	3/0	3/0	3/6	4/0	4/6	..	..	..	..	..	"
839	Ditto Coopers' Dowling do.	1/9	1/9	1/9	2/8	3/0	..	..	..	..	..	"

All Flat Shank Bits, same price as Square Shanks.

SCREW BOXES AND TAPS, COMPLETE.

To	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	inches.			
840		3/6	4/0	4/6	5/0	5/6	6/0	7/0	8/0	9/0	10/0	13/0	17/0	21/0	25/0	30/0	each.

WHEELERS' ROUNDERS.

To	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	inches.
841	Wheelers' Rounders	4/0	4/6	5/0	5/6	6/0	6/6	7/0	7/6	each.				

GIMBLETS.

842	Warranted Cast Steel Shell Gimblets, assorted to 1/2, 4/0; all 1/2, 5/0 per dozen.											
843	Ditto Patent ditto, to 1/2, 5/0; all 1/2, 6/0	"										
		1/2	5-16	3/8	7-16	1/2	9-16	5/8	inch.			
844	Best Cast Steel Shell Spike Gimblets	6/0	7/0	8/0	9/6	11/0	13/0	16/0	dozen.			
845	Ditto ditto Box Heads	8/6	9/6	10/6	12/6	14/6	17/0	20/0	"			
846	Ditto ditto Patent Spike Gimblets	9/0	10/0	11/6	13/6	16/0	19/0	22/0	"			
847	Ditto ditto Box Heads	11/6	12/6	14/0	16/6	19/6	23/0	26/0	"			
848	Ditto Bellhangers' or Ship Gimblets	8/0	9/0	10/0	11/0	12/0	14/0	16/0	"			
849	Ditto ditto Eyed	12/0	13/0	14/0	15/0	16/0	18/0	20/0	"			
850	Ditto Wheelers' Gimblets	5/0	6/0	7/0	8/6	10/0	12/0	15/0	"			
851	Ditto Screw Auger Gimblets, Box Heads	..	..	..	..	..	..	..	"			
	Ditto ditto, assorted to 5/8 inch, 8/6 per dozen; ditto, to 1/2 inch, 9/6 per dozen.											
852	Boxwood Cucumber Slices, 30/0; with Improved Spring, 36/0.											

PLOUGH PLATES, STOPS, &c.

853	Plough Plates, Steel											20/0 per dozen.
854	Ditto Stops											26/0 "
855	Saah Filister Stops											25/0 "
856	Improved ditto											27/0 "
857	Moving Filister Stops											17/0 "
858	Improved Moving ditto											25/0 "
859	Dado Trenching Stops											13/6 "

All Stops with Improved Wing, 5/0 per dozen extra.

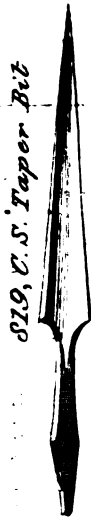
To	1 1/2	1 1/4	2	inches.	
860	Coopers' Croze Irons	8/6	..	..	dozen.
861	Best ditto	10/0	13/4	14/0	"
862	Hawk Kneb ditto	16/0	18/0	20/0	"
863	Coopers' Croze Stocks				40/0 per dozen.
864	Best ditto				46/0 "
865	Best Hawk Kneb Irons				55/0 "

SUNDRIES.

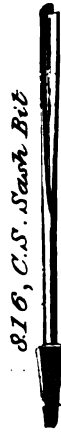
		4	4 1/2	5	5 1/2	6	6 1/2	7	inches.	
	Gentlemen's C. S. Box Handle Drawing Knives	20/0	22/0	24/0	26/0	28/0	30/0	32/0	doz.	
	Cast Steel Curriers' Steels								3/6 doz.	
	Ditto ditto with Beech Handles								5/6 "	
	Ditto ditto with Box Handles								7/6 "	
	Scribing Tools								4/6 "	
	Marking Awls								3/6 "	
	Striking Knives								6/0 "	
	Bolt Chisels								6/0 "	
	Beech Chalk Line Reels								3/0 "	
	Boxwood ditto								5/0 "	
	Gentlemen's Mallets								12/0 "	
	Joiners' Mallets, 18/0; Carpenters'								20/0 "	
	Brad and Nail Punches								1/6 "	
		Cast Steel Brad and Nail Punches								2/6 doz.
		Ditto extra Strong Flooring								5/0 "
		Brad Awl Blades, shouldered								0/6 "
		Ditto, Handled, Round								1/8 "
		Ditto, best Improved Brad Awl Blades								0/8 "
		Ditto, Handled, Oval								2/4 "
		Oval Beech Brad Awl Handles								1/2 "
		Ditto Boxwood ditto								5/0 "
		Flooring Awls								0/10 "
		Improved ditto								1/6 "
		Ditto, Handled, Oval								3/3 "
		Ditto, Round, with Strong Brass Ferrules								5/0 "



813, Bright Screw Bit for Brace



819, C.S. Taper Bit



816, C.S. Saw Bit



815, C.S. Shell Bit



815, C.S. Nose Bit



815, C.S. Spoon Bit



829, C.S. Square Rinder



829, C.S. 1/2 Round Rinder



818, C.S. Gimlet Bit



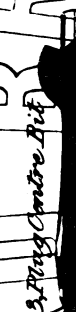
839, Cooper's Dowling Bit



812, Centre Bit



814, Saw Handle Centre Bit



823, Ring Centre Bit



824, Round Centre Bit



827, Small Horn Counter Sink



828, Round Head Counter Sink



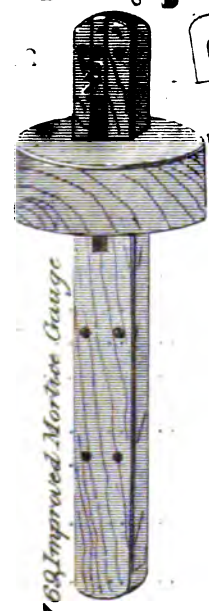
829, Flat Head Counter Sink



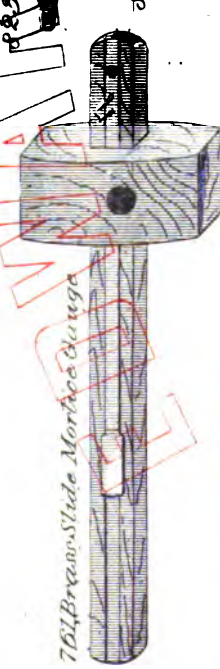
825, Brace Turn Screw



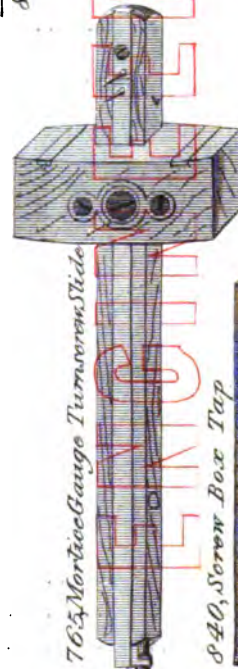
831, C.S. Boring Bit



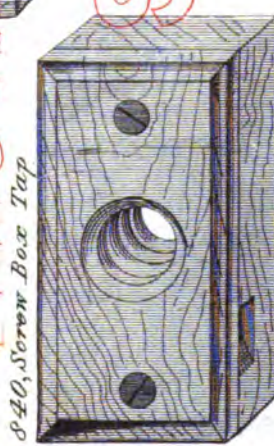
769, Improved Mortise Gauge



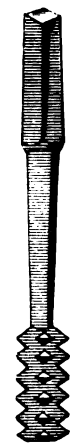
761, Brass Slide Mortise Gauge



765, Mortise Gauge Turnover Slide



840, Screw Box Tap



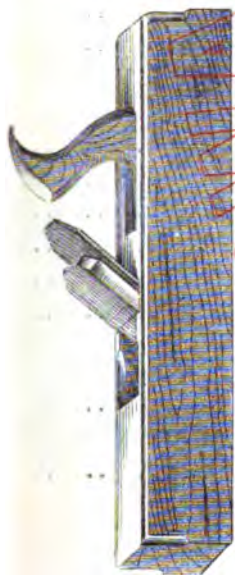
840, Saw



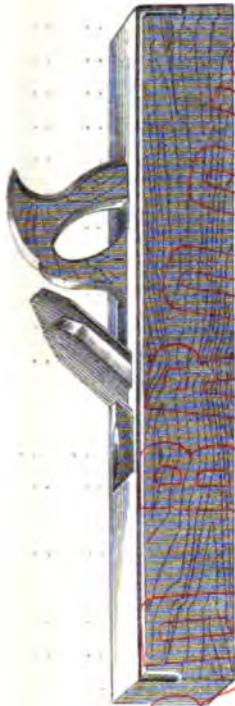
785, Saw

Drs- COUNT.	No.	PLANES.									
			Single.					Double.		Cast Steel Nutt'd Irons.	
			S.	D.				S.	D.	S.	D.
	866	Smoothing, to 2 inch .. .. .	2	4				3	2	3	9
		Ditto 2 $\frac{1}{8}$ inch .. .. .	2	6				3	4	3	11
		Ditto 2 $\frac{1}{4}$ inch .. .. .	2	8				3	6	4	2
		Ditto 2 $\frac{3}{8}$ inch .. .. .						4	0	4	6
		Ditto 2 $\frac{1}{2}$ inch .. .. .						4	6	5	0
	867	Jack, 14 to 17 inch, to 2 inch .. .. .	3	0				4	2	4	8
		Ditto ditto 2 $\frac{1}{8}$ inch .. .. .	3	2				4	5	4	11
		Ditto ditto 2 $\frac{1}{4}$ inch .. .. .	3	5				4	8	5	2
	868	Panel .. .. .						5	6	6	0
	869	Ditto, Slipped .. .. .						6	6	7	0
	870	Trying, to 22 inch .. .. .	5	0				6	0	6	6
	871	Long, 24 inch .. .. .	5	3				6	3	6	9
	872	Ditto, 26 inch .. .. .	5	6				6	6	7	0
	873	Jointers, 28 inch .. .. .	6	0				7	0	7	6
	874	Ditto, 30 inch .. .. .	6	3				7	3	7	9
	875	Compass Smoothing .. .. .	2	9				3	9	4	3
	876	Toothing, Coarse or Fine .. .. .	3	3							
	877	Ditto Two Irons .. .. .	4	3							
	878	Fork Stail .. .. .	4	0				5	6	6	0
	879	Spout .. .. .	4	6							
	880	Smoothing Raising .. .. .	4	0				6	6	7	0
	881	Jack ditto .. .. .	6	0				8	0	8	6
	882	Gent.'s Smoothing .. .. .	2	0							
	883	Ditto Jack .. .. .	2	6							
	884	Coopers' Jointers .. .. .   12 0	14	0				18	0	21	0
		Square Brass Nuts to Common Double Irons, 3d. extra.									
		Planes, with Hardened Top Irons, 4d. extra.									
		Ditto, with Solid Nutted Top Irons, 3d. extra.									
		A.									
	885	Astragals, to $\frac{3}{4}$ inch .. .. .								2	2
		Every $\frac{1}{8}$ extra, 3d.									
	886	Astragal and Hollow Sash Templets, Boxed, per pair .. .. .								7	6
	887	Astragal and Hollow Sash, Two Mouths .. .. .								6	0
	888	Ditto, with Templets, extra .. .. .								1	6
	889	Lamb's Tongue Sash and Templets, per pair .. .. .								7	6
		B.									
	890	Beads, Boxed, to $\frac{3}{4}$ inch .. .. .								2	6
	891	Ditto, Slipped to $\frac{3}{4}$ inch .. .. .								3	0
		Every $\frac{1}{8}$ extra, 3d.									
	892	To answer for Bead and Torus .. .. .								3	6
		Every $\frac{1}{8}$ extra, 4d.									
	893	Cock Beads, Boxed .. .. .								2	6
	894	Double Cock Beads .. .. .								4	0
	895	Chair Foot .. .. .								2	6
	896	Beads, Double Boxed .. .. .								3	0
		Every $\frac{1}{8}$ extra above $\frac{3}{4}$ , 3d.									

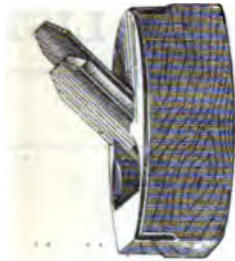




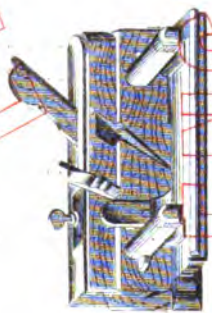
867 Jack Plane



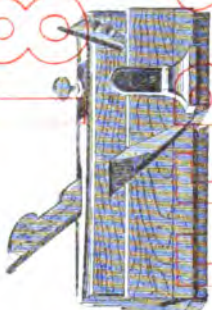
870 Trying Plane



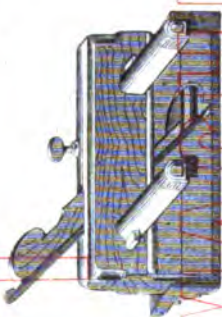
866 Smoothing Plane



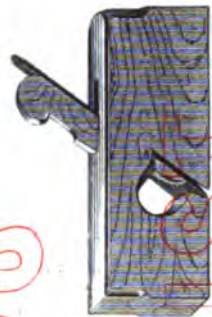
906 Sash Filler Plane



900 Working Filler Plane



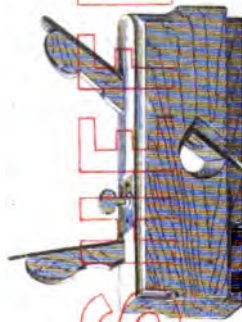
946 Plough Plane



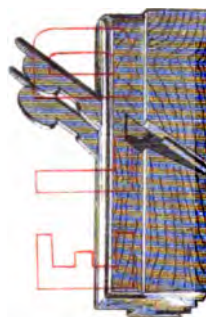
951 Rabbit Plane



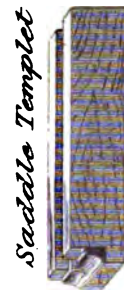
933 Ovolo Sash Plane



925 Dado Grooving or Trenching Plane



910 Pair Grooving Plane



Saddle Template



Side Template

# THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	PLANES—Continued.											
		C.											
	897	Cove and Bead, to 1 inch	..	..	..	..	..	..	..	..	..	s.	d.
	898	Cornice, per inch	..	..	..	..	..	..	..	..	..	3	0
		F.											
	899	Fluting Plane	..	..	..	..	..	..	..	..	..	2	6
	900	Moving Filister	..	..	..	..	..	..	..	..	..	4	3
	901	Ditto ditto, Brass Slip Stop and Tooth..	..	..	..	..	..	..	..	..	..	6	0
	902	Ditto ditto, Brass Screw Stop and Forked Tooth ..	..	..	..	..	..	..	..	..	..	9	6
	903	Ditto ditto, with Improved Fence ..	..	..	..	..	..	..	..	..	..	10	6
	904	Sash Filister, Wood Stop	..	..	..	..	..	..	..	..	..	6	0
	905	Ditto ditto, Box Screw Top	..	..	..	..	..	..	..	..	..	9	0
	906	Ditto ditto, and Capped Stems	..	..	..	..	..	..	..	..	..	11	6
	907	Ditto ditto, Shoulder Boxed, Forked Tooth, and Improved Stop	..	..	..	..	..	..	..	..	..	17	0
	908	Cock Bead Filister	..	..	..	..	..	..	..	..	..	3	6
	909	Moving or Sash Filister, Dovetailed Boxed extra	..	..	..	..	..	..	..	..	..	3	0
		G											
	910	Grooving Planes, for Slit Deal to $\frac{3}{4}$ inch size, per pair ..	..	..	..	..	..	..	..	..	..	5	6
	911	Ditto, $\frac{7}{8}$ and 1 inch	..	..	..	..	..	..	..	..	..	5	10
		Every $\frac{1}{8}$ extra, per pair, 4d.											
	912	Long Grooving, with Handles $1\frac{1}{4}$ and $1\frac{1}{2}$ inch	..	..	..	..	..	..	..	..	..	10	0
		For every extra $\frac{1}{8}$ , per pair, 6d.											
	913	Grooving Planes, $\frac{1}{2}$ inch Plated Back Fence	..	..	..	..	..	..	..	..	..	7	0
	914	Ditto, $\frac{1}{2}$ inch Plated Face and Fence	..	..	..	..	..	..	..	..	..	9	0
	915	Ditto, $\frac{5}{8}$ and $\frac{3}{4}$ inch Plated Back Fence	..	..	..	..	..	..	..	..	..	7	3
	916	Ditto, $\frac{5}{8}$ and $\frac{3}{4}$ inch Plated Face and Fence ..	..	..	..	..	..	..	..	..	..	9	3
	917	Ditto, $\frac{7}{8}$ and 1 inch Plated Back Fence	..	..	..	..	..	..	..	..	..	7	10
	918	Ditto, $\frac{7}{8}$ and 1 inch Plated Face and Fence..	..	..	..	..	..	..	..	..	..	9	10
	919	Ditto, $1\frac{1}{4}$ and $1\frac{1}{2}$ Plated Back Fence	..	..	..	..	..	..	..	..	..	12	6
	920	Ditto, $1\frac{1}{4}$ and $1\frac{1}{2}$ inch Plated Face and Fence	..	..	..	..	..	..	..	..	..	13	6
	921	Moving Grooving, Plated Back Fence ..	..	..	..	..	..	..	..	..	..	12	6
	922	Moving Grooving, Plated Face and Fence	..	..	..	..	..	..	..	..	..	15	0
	923	Ditto, with Handles	..	..	..	..	..	..	..	..	..	10	6
	924	Dado or Carcase Grooving, Wood Stop..	..	..	..	..	..	..	..	..	..	6	6
	925	Ditto ditto, Screw Top	..	..	..	..	..	..	..	..	..	4	6
	926	Gothic Sash and Templets	..	..	..	..	..	..	..	..	..	7	6
	927	Grooving, for Drawer Bottom	..	..	..	..	..	..	..	..	..	3	0
		H.											
	928	Hollows and Rounds, per pair	..	..	..	..	..	..	..	..	..	4	0
		Hand-rail Planes, according to Pattern and number to set.											
	929	Table Planes, per pair	..	..	..	..	..	..	..	..	..	4	0
		Gauges for ditto, 6d. each.											





940 Quirk OGee  
1/2 In



941A Quirk OGee & Quirk Bead  
1/2 In



932 Oveloe Sash Plane  
5/8 In



943 Grecian Oveloe  
1 In



942 Torus Plane  
3/4 In



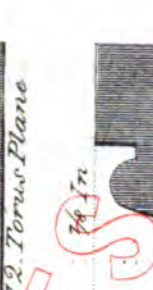
942A Grecian OGee & Hollow  
1 1/4 In



926 Gothic Sash Plane  
5/8 In



944A Quirk Oveloe  
1 3/8 In



941 Quirk OGee & Bead  
3/4 In



940A Quirk OGee Double Square  
1 1/4 In



942B Flat Grecian OGee  
1 1/2 In



944B Grecian Oveloe and Bead  
2 1/8 In



890 Bead Plane  
3/4 In



942 Grecian OGees  
1 1/2 In



943A Quirk Oveloe & Square  
1 1/8 In



940B Cove Quirk OGee & Square  
1 1/2 In



936A Quirk OGee & Asymmetrical  
1/2 In



944 Quirk Oveloe & Bead  
1 In

# THE ILLUSTRATED SHEFFIELD LIST.

Dns- COUNT.	No.	PLANES—Continued.									
		N.									
										s.	d.
930	Necking, to 1 inch .. .. .									3	0
931	Nosing, to 1 inch .. .. .									3	2
	Every $\frac{1}{8}$ extra, 3d.										
	O.										
932	Oveloe Sash and Templets, per pair .. .. .									6	6
933	Ditto, with two Mouths .. .. .									5	6
934	Ditto, with Templets, extra .. .. .									1	6
935	Common Ovaloes or Ogees, to $\frac{3}{4}$ inch .. .. .									2	2
	Every $\frac{1}{8}$ extra, 3d.										
936	Quirk Ovaloes or Ogees, to 1 inch .. .. .									3	0
	Every $\frac{1}{8}$ extra, 4d.										
936A	Quirk Ogee and Astragal, to 1 inch .. .. .									4	0
937	Back Ogees, to $\frac{3}{4}$ inch .. .. .									2	6
938	Ditto ditto, and Double Square .. .. .									3	0
939	Ditto ditto, and Beaded Boxed, to 1 inch .. .. .									3	6
940	Quirk Ogees, slipped, to 1 inch .. .. .									3	4
940A	Quirk Ogee and Double Square .. .. .									4	0
940B	Cove Quirk Ogee and Square .. .. .									6	6
941	Ditto ditto, and Cock Bead, to 1 inch .. .. .									3	6
941A	Ditto ditto, and Quirk Bead .. .. .									4	0
942	Grecian Ogee, to 1 inch .. .. .									3	6
942A	Ditto ditto, and Hollow .. .. .									4	0
942B	Flat Grecian Ogee .. .. .									3	6
943	Grecian Oveloe, to 1 inch .. .. .									3	6
	Ditto, Double Boxed, extra .. .. .									0	4
943A	Quirk Oveloe and Square, to 1 inch .. .. .									3	0
	Every $\frac{1}{8}$ extra, to 2 inch, 4d. per $\frac{1}{8}$ ; 2 inch and upwards, 6d. per $\frac{1}{8}$ extra.										
944	Quirk Oveloe and Beads, to 1 inch.. .. .									3	6
944A	Quirk Oveloe, to 1 inch .. .. .									3	0
	Every $\frac{1}{8}$ extra, 4d.										
944B	Grecian Oveloe and Bead .. .. .									6	0
945	Old Woman's Tooth.. .. .									2	0
	P.										
946	Plough Plane, Single Plate, one Iron .. .. .									5	0
947	Ditto ditto, Double ditto, ditto .. .. .									6	6
948	Ditto ditto, 3 Irons, Wood Stop .. .. .									8	0
949	Ditto ditto, 6 Irons, ditto .. .. .									10	0
950	Ditto ditto, Screw Top, 8 Irons .. .. .									14	6
951	Ditto ditto, ditto, and Capped Stems .. .. .									16	0
952	Ditto with Bright Irons ditto .. .. .									17	0
953	Best Ploughs, with extra work on Fence .. .. .									19	0
954	Improved Stop ditto .. .. .									20	0
955	Screw Stems, ditto .. .. .									22	0
956	Ploughs, to work Straight or Circular .. .. .									36	0

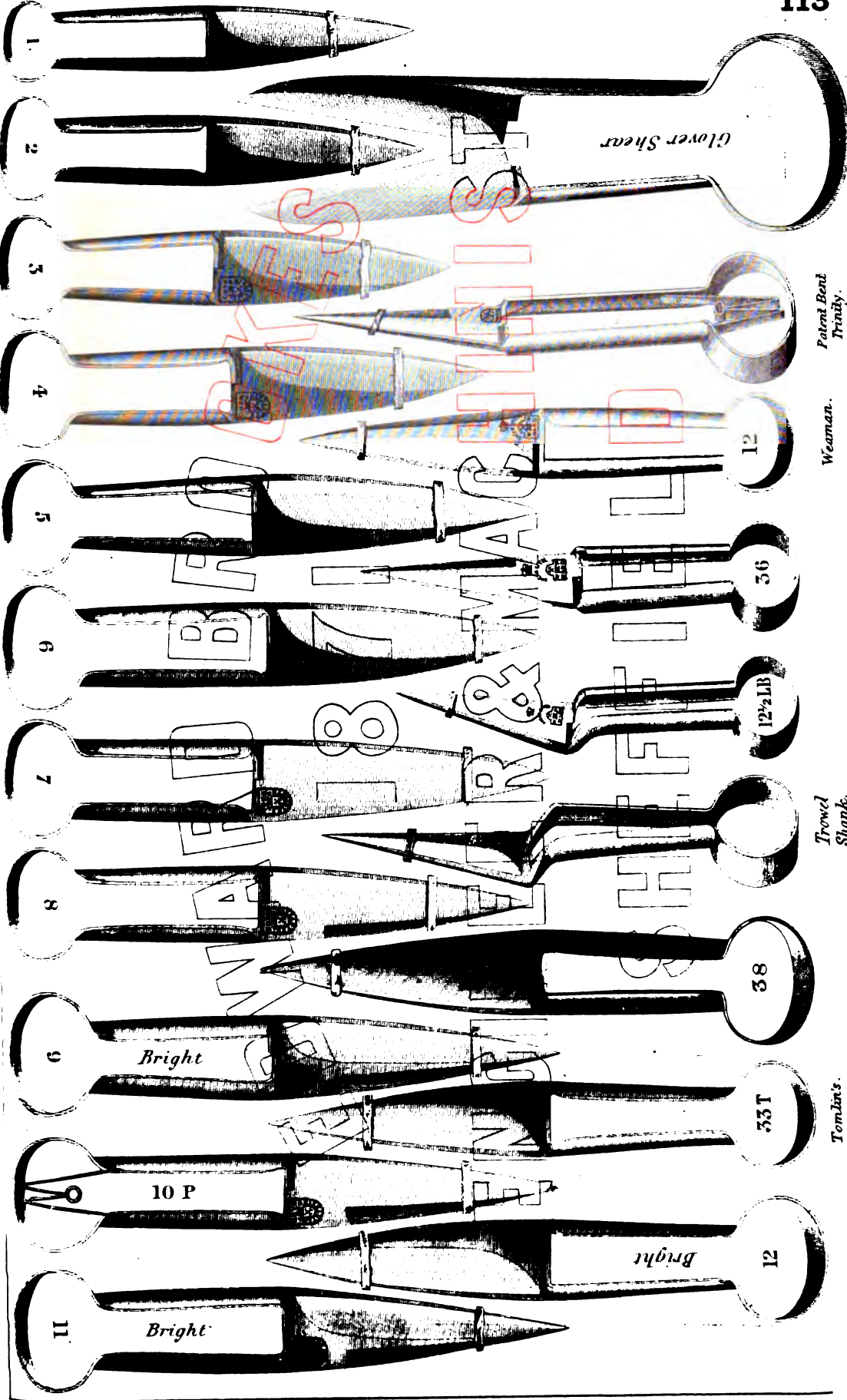


## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	PLANES.—Continued.	
		R.	
			s. d.
	957	Reed Planes, Fenced to work more Reeds .. .. .	5 0
	958	Reed Planes, Single Reeds, 3/4; 2 Reeds, 3/8; 3 Reeds, 4/6; 4 Reeds .. .. .	6 0
	959	Side Rabbit, per pair .. .. .	5 0
	960	Side Rounds, per pair .. .. .	4 6
	961	Square Rabbit, to 1½ inch .. .. .	2 4
		For every ½ inch, 2d. extra.	
	962	Skew Rabbit, to 1½ inch .. .. .	2 4
		Boxed Edges, Skew or Square, double price.	
		S.	
	963	Snipe Bills, per pair .. .. .	5 0
	964	Ditto, Shoulder Boxed, per pair .. .. .	7 6
	965	Side Snipe, per pair .. .. .	7 0
	966	Spring Plane .. .. .	5 0
	967	Coopers' Crozes, to 16 inch .. .. .	4 6
	968	Ditto Shaves .. .. .	2 6
	969	Ditto Brace, Wood Pad .. .. .	2 0
	970	Brushmakers' Brace, with Spring .. .. .	2 6
	971	Sun Planes .. .. .	5s. 6d. 7 0
		T.	
	972	Torus Planes, to ¾ inch .. .. .	3 0
		Every ½ extra, 3d.	
		PLUMBERS' SHAVE HOOKS, WITH HARDWOOD HANDLES.	
		Triangle or Heart Pattern .. .. .	14/6 per dozen.
		Ditto ditto Blades only .. .. .	5/0 „

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	SHEEP SHEARS, &c.																		
	No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sheep Shears.....	16/0	16/0	17/0	18/0	19/0	20/0	22/0	24/0	26/0	28/0	30/0	32/0	34/0	36/0	38/0	40/0	42/0	44/0	46/0
Patent .....	16/0	16/0	17/0	18/0	19/0	20/0	22/0	24/0	26/0	28/0	30/0	32/0	34/0	36/0	38/0	40/0	42/0	44/0	46/0
Pocket Docking Shears, 18/0; Swaged ditto, 20/0; Bright ditto, 20/0; Large ditto or L.D., 24/0 per dozen.																			
Bent Devon Sheep Shears .....	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0
Patent Bent ditto .....	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
Cast Steel Trowel-Shank ditto, 32/0; Patent ditto, 38/0 per dozen. Best Leicesterhire Sheep Shears, 32/0 per dozen.																			
Humpt Wooltappers, Flyers, and Snappers' Shears, 37/0 per dozen. Thatchers' Shears, 30/0 per dozen No. 33T. Tomlin's pattern, 30/0 per dozen.																			
Rag, or Bright Solid Shank Shears.....	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0
Best American, ditto .....	15/6	16/6	17/6	18/6	19/6	20/6	21/6	22/6	23/6	24/6	25/6	26/6	27/6	28/6	29/6	30/6	31/6	32/6	33/6
Patent Bent, ditto .....	15/6	16/6	17/6	18/6	19/6	20/6	21/6	22/6	23/6	24/6	25/6	26/6	27/6	28/6	29/6	30/6	31/6	32/6	33/6
Trowel-Shank American Cast Steel Sheep Shears .....	No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Patent ditto .....	No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Best Trinity Sheep Shears, to 5-inch Blades.....	No.	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Patent Bent ditto, .....	No.	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
Black Dorset Sheep Shears, No. 6 .....	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0	24/0
Cast Steel ditto .....	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0
Cast Steel Kamdal Broad-Heeled Sheep Shears, Black, 28/0; Bright, 30/0 per dozen.																			
Wilshire or Sarum Sheep Shears .....	No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Horse Shears.....	15/0	16/0	17/0	18/0	19/0	20/0	21/0	22/0	23/0	24/0	25/0	26/0	27/0	28/0	29/0	30/0	31/0	32/0	33/0
Glovers' and Breeches Makers' Shears.....	No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
No. 124 L.P., 32/0; No. 38 Trowel-Shank Sheep Shears, 34/0; No. 12 Weeman, 32/0 per dozen. Ditto Improved Ridged, 2/0 per dozen extra.	No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Rug Shears, 44/0 per dozen. All Bent Sheep Shears 6d. per dozen extra. N.B.—Sheep Shears advanced 1/0 per dozen, January, 1857.	No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CAST STEEL PATENT SHEEP SHEAR, WITH DOUBLE BOWS.																			
No. 1 .....	23/0	24/0	25/0	26/0	27/0	28/0	29/0	30/0	31/0	32/0	33/0	34/0	35/0	36/0	37/0	38/0	39/0	40/0	41/0
" 2 .....	24/0	25/0	26/0	27/0	28/0	29/0	30/0	31/0	32/0	33/0	34/0	35/0	36/0	37/0	38/0	39/0	40/0	41/0	42/0
" 3 .....	25/0	26/0	27/0	28/0	29/0	30/0	31/0	32/0	33/0	34/0	35/0	36/0	37/0	38/0	39/0	40/0	41/0	42/0	43/0
" 4 .....	26/0	27/0	28/0	29/0	30/0	31/0	32/0	33/0	34/0	35/0	36/0	37/0	38/0	39/0	40/0	41/0	42/0	43/0	44/0
" 5 .....	27/0	28/0	29/0	30/0	31/0	32/0	33/0	34/0	35/0	36/0	37/0	38/0	39/0	40/0	41/0	42/0	43/0	44/0	45/0
" 6 .....	28/0	29/0	30/0	31/0	32/0	33/0	34/0	35/0	36/0	37/0	38/0	39/0	40/0	41/0	42/0	43/0	44/0	45/0	46/0



1

2

3

4

5

6

7

8

9

10

11

12

Glover Shear

Patent Bent Trinity.

Weman.

12

36

12 1/2 LB

Trowel Shank.

38

33 T

Tomlin's.

12

Bright

Bright

10 P

Bright

Dis-  
count.

No.

WIRE ROPE, for Collieries, Inclined Planes, Ships' Standing Rigging, &c.  
MANUFACTURED BY PATENT MACHINERY.  
ROUND ROPES.

PATENT STEEL WIRE ROPES.			CHARCOAL IRON WIRE ROPE OF EQUIVALENT STRENGTH.				
Circumfer- ence.	Lbs. weight per Fathom	Price per cwt.	Circumfer- ence.	Lbs. weight per Fathom	Breaking Strain.	Working Load.	Price per cwt.
1½ inches.	1½		1½ inches.	1½	2½ tons.	9 cwt.	
1½ "	1½		1½ "	2½	4 "	15 "	
1½ "	2		2 "	3½	6 "	20 "	
1½ "	2½		2½ "	4½	7½ "	24 "	
1½ "	3½		2½ "	5½	10 "	30 "	
2 "	3½		2½ "	6	11 "	33 "	
2½ "	4		2½ "	6½	12 "	36 "	
2½ "	4½		2½ "	7	13 "	41 "	
2½ "	5		3 "	7½	14 "	45 "	
2½ "	5½		3½ "	8	15 "	48 "	
2½ "	—		3½ "	8½	16 "	52 "	
2½ "	6		3½ "	9½	17 "	56 "	
2½ "	6½		3½ "	10½	20 "	64 "	
2½ "	7		3½ "	12	22 "	68 "	
3 "	7½		3½ "	13	23 "	74 "	
3½ "	8½		4 "	14	25 "	82 "	
3½ "	9½		4½ "	16	29 "	97 "	
3½ "	11		4½ "	18	33 "	105 "	
3½ "	12		4½ "	20	36 "	115 "	
3½ "	13		4½ "	22	39 "	125 "	
4 "	14		5 "	24	43 "	140 "	
4½ "	16		5½ "	26	47 "	150 "	

FLAT ROPES.

PATENT STEEL WIRE ROPE.			CHARCOAL WIRE ROPE OF EQUIVALENT STRENGTH.				
Size.	Lbs. weight per Fathom	Price.	Size.	Lbs. weight per Fathom	Breaking Strain.	Working Load.	Price per cwt.
2½ by ½	8		2½ by ½	10	18 tons.	40 cwt.	
			2½ by ½	12	20 "	45 "	
			2½ by ½	15	23 "	51 "	
2½ by ½	12		3 by ½	16	27 "	57 "	
			3½ by ½	18	30 "	60 "	
			3½ by ½	19	33 "	68 "	
3 by ½	14		3½ by ½	22	35 "	78 "	
			4 by ½	26	38 "	92 "	
			4½ by ½	28	41 "	101 "	
3½ by ½	18		4½ by ½	32	46 "	118 "	

Galvanized, per cwt. extra.

WIRE STRAND, FOR FENCING AND SIGNAL CORD.  
Birmingham Wire Gauge.

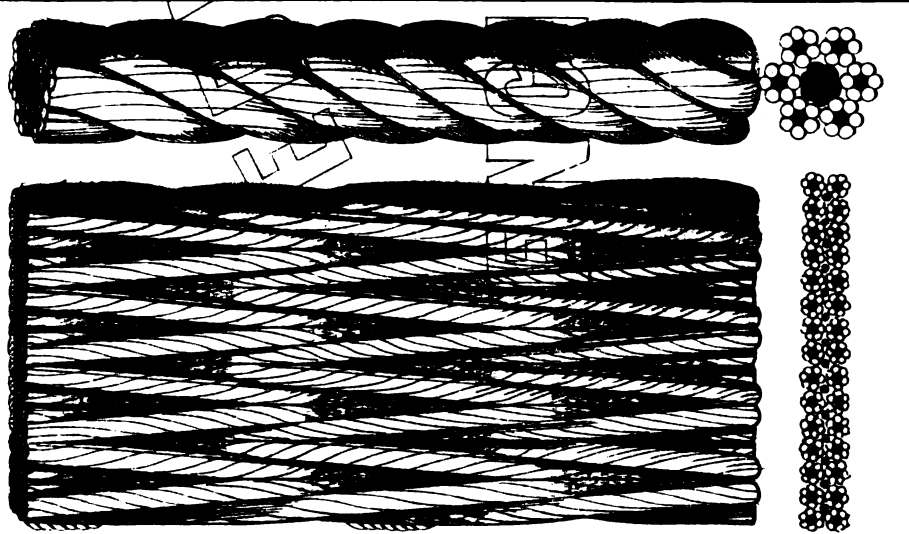
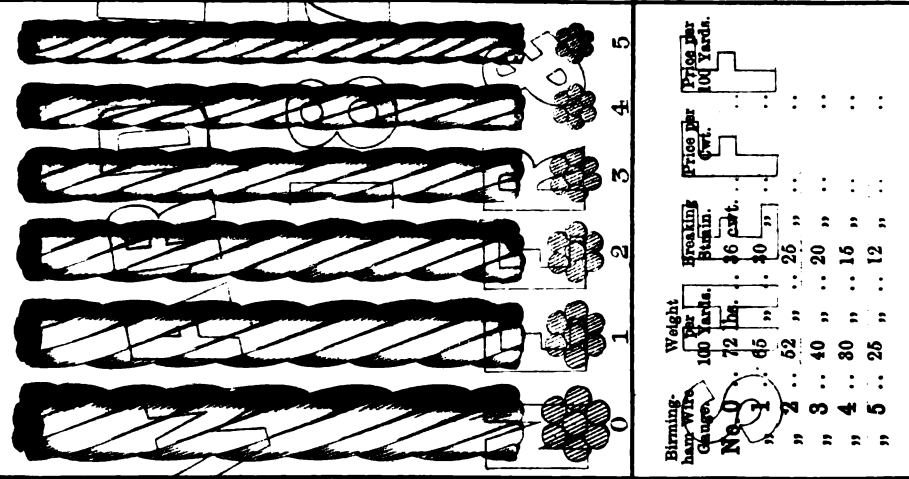
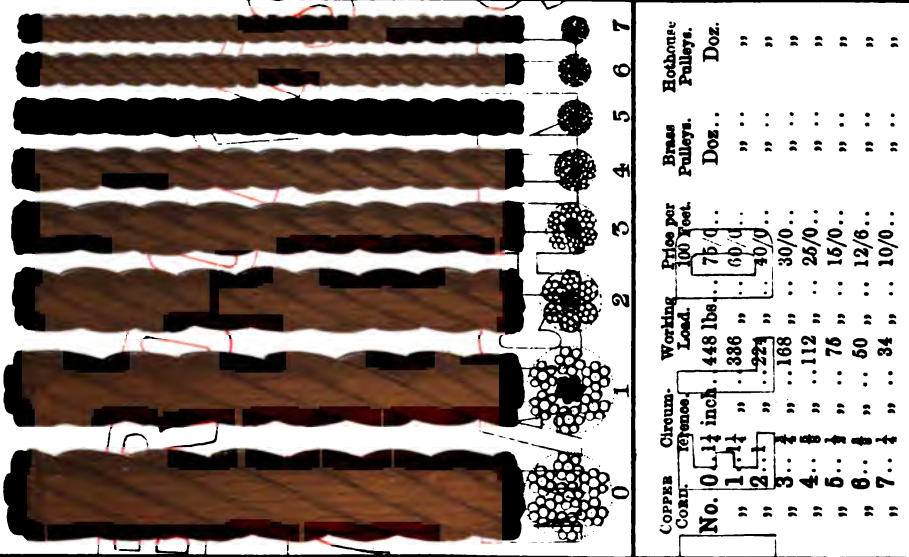
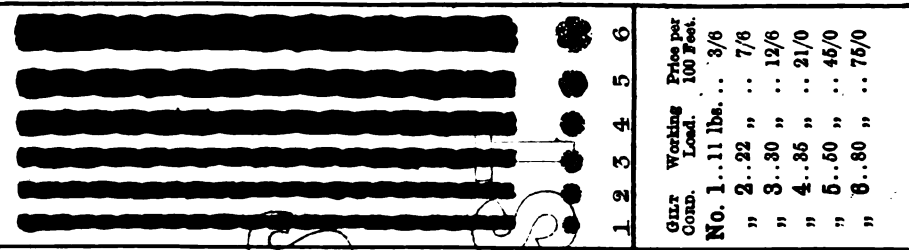
No.	0	1	2	3	4	5	
Weight per 100 yards	lbs.	66	60	48	42	34	29
Breaking Strain	cwt.	36	30	23	18	14	11
Working Load	"	6	5	4	3	2½	2
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Galvanized	{ Price .... cwt. per 100 yards.						
Plain	{ Price .... cwt. per 100 yards.						

COPPER WINDOW SASH CORD, for Hothouses, Lightning Conductors, &c., &c.

No.	0	1	2	3	4	5	6	7	
Circumference in inches	1½	1½	1	¾	¾	¾	¾	¾	
Working Load	lbs.	330	330	225	170	112	78	45	30
Price per 100 feet		75/0	60/0	40/0	30/0	25/0	15/0	12/6	10/0

PLAIN AND GALVANIZED ROPES, for Capstans, Guide Ropes in Pits, &c.  
GALVANIZED WIRE ROPE, FOR SHIPS' STANDING RIGGING.  
COPPER WIRE ROPE LIGHTNING CONDUCTOR,  
Any length, ½ inch diameter, with Point and Fittings, complete, per foot.



FLAT WIRE ROPE. Drawings Half Size.	GALVANIZED WIRE STRAND, &c., FOR FENCING AND SIGNAL CORD. Drawings Full Size.	COPPER CORD, FOR WINDOW SASH LINE, HOTHOUSES, LIGHTNING CONDUCTORS, &c. Drawings Full Size.	GILT PICTURE CORD.
			
Birrings: 100 Yards. No. 1 72 lb. " 2 62 " " 3 40 " " 4 30 " " 5 25 " Breaking Strain: 46 cwt. Price per Cwt. Price per 100 Yards.	Weight: 100 Yards. No. 1 72 lb. " 2 62 " " 3 40 " " 4 30 " " 5 25 " Breaking Strain: 46 cwt. Price per Cwt. Price per 100 Yards.	Copper Circumference: No. 0 1 1/4 inch " 1 1 1/2 " " 2 1 3/4 " " 3 2 " " 4 2 1/4 " " 5 2 1/2 " " 6 2 3/4 " " 7 3 " Working Load: No. 0 448 lbs. " 1 336 " " 2 224 " " 3 168 " " 4 112 " " 5 76 " " 6 50 " " 7 34 " Price per 100 Feet: No. 0 75 d. " 1 60 d. " 2 40 d. " 3 30 d. " 4 25 d. " 5 15 d. " 6 12 d. " 7 10 d.	Gilt Working Load: No. 1 1.11 lbs. " 2 2.22 " " 3 3.30 " " 4 4.35 " " 5 5.50 " " 6 8.80 " Price per 100 Feet: No. 1 3/8 " 2 7/8 " 3 12/8 " 4 21/0 " 5 45/0 " 6 75/0

Dis-  
count.

No.

PRICES OF STEEL WIRE.

Best Round Cast Steel Wire, in Lengths or Rings, Pinion Sizes :-  
1½ to 7-16 in. | Z to A | No. 1 to 15 | 16 to 30 | 31 to 38 | 39 to 46 | 47 to 50 | 51 to 54 | 55 to 57 | 58 to 60 |  
5/0 | 2/6 | 2/6 | 2/9 | 3/0 | 3/6 | 4/0 | 4/10 | 6/0 | 7/0 | per lb. gross  
61 & 62 | 63 & 64 | 65 & 66 | 67 | 68 | 69 & 70 | 71 & 72 | 73 & 74 | 75 & 76 | 77 & 78 | 79 & 80 |  
8/0 | 8/6 | 9/0 | 9/6 | 10/6 | 12/0 | 14/0 | 15/6 | 17/0 | 18/6 | 20/0 | per lb. gross

BEST CAST STEEL PINION WIRE.

6's, 7's, 8's, 10's, 12's. PINION. A to D E to L M to P Q to U V to Z.  
1/0 1/6 2/0 2/8 3/0 per foot.  
6's, 7's, 8's, 10's, & 12's... No. 1 to 11, at 7d. per ft. 6's.....No. 36 to 60, at 3d. per foot.  
6's, 7's, and 8's ..... No. 12 to 30, at 6d. " 7's and 8's ..... No. 31 to 60, at 4½d. "  
6's ..... No. 31 to 35, at 4½d. " 10's and 12's ..... No. 12 to 60, at 6d. "  
Click Wire, 3d. per foot.  
Brass Pinion Wire, same Gross Prices as Cast Steel Pinion Wire.  
- No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  
Spring Steel Needle Wire .... | 2/0 | 2/0 | 2/2 | 2/4 | 2/6 | 2/8 | 2/10 | 3/0 | 3/6 | 4/0 | 4/6 | 5/0 | 6/0 | 7/0 | 8/6 | 10 | per lb.  
No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  
First Quality of Cast Steel Needle Wire .... | 1/8 | 1/9 | 1/9 | 1/10 | 2/3 | 2/5 | 2/8 | 3/0 | 3/7 | 4/3 | 4/11 | per lb.  
No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  
Second Quality of Cast Steel Needle Wire .... | 1/4 | 1/5 | 1/6 | 1/7 | 1/9 | 1/10 | 2/0 | 2/3 | 2/6 | 3/0 | per lb.  
No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |  
Fine Fish Hook Wire... | 2/2 | 2/2 | 2/3 | 2/4 | 2/5 | 2/6 | 2/7 | 2/8 | 2/9 | 3/3 | 3/3 | 3/6 | 3/9 | 4/4 | 4/6 | 5/5 | 6/6 | 6/6 | 7/7 | lb.  
No. | 1 to 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  
Improved Shear Steel Wire, Iron Wire Sizes .... | 0/11 | 1/0 | 1/0½ | 1/1 | 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | per lb.  
No. | 1 to 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |  
Best Cast Steel Wire, ditto | 1/2 | 1/3 | 1/4 | 1/4½ | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 | 1/10 | 2/0 | 2/2 | 2/4 | 2/6 | 2/9 | 3/0 | per lb.  
No. | 1 to 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |  
Mild Cast Steel Wire, ditto | 0/10½ | 0/11 | 1/0 | 1/0½ | 1/1 | 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/9 | 1/10 | 2/0 | 2/3 | 2/6 | per lb.  
Best Common Steel Wire, } No. | 1 to 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |  
Iron Wire Sizes..... } | 0/9 | 0/9½ | 1/0 | 1/0½ | 0/11 | 1/0 | 1/1 | 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/8 | 1/9 | 2/2 | 2/3 | lb.  
No. | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |  
Best Cast Steel Rope Wire, Iron Wire Sizes .... | 0/11 | 1/0 | 1/0½ | 1/1 | 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/9 | per lb.  
Best German Steel Music Wire..... No. 10 to 24, at per lb. Net.  
Best Selected Watch Spring Wire ..... No. 1 to 14, at "

BEST IRON WIRE.

No. | 0 to 7 | 7 & 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |  
Best Iron Wire.... | 19/0 | 19/6 | 20/0 | 20/6 | 21/0 | 21/6 | 22/0 | 22/6 | 23/0 | 23/6 | 24/6 | 25/6 | 26/6 | per bundle of 63 lb.  
No. | 20 | 21 | 22 |  
Best Iron Wire..... | 27/6 | 28/6 | 29/6 | per bundle of 60 lb.  
Allowance per Bundle.  
No. | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |  
Annealed or Bright Iron Wire | 5/5 | 5/3 | 5/6 | 5/9 | 6/6 | 6/6 | 7/7 | 7/6 | 8/8 | 8/6 | 9/6 | 11/12 | 14/6 | per stone of 12 lb.  
No. | 0 to 6 | 7 to 8 |  
Prepared Fencing Wire, in long Lengths, Annealed or Bright..... | per ton, net.  
No. | 0 to 6 | 7 to 9 | 10 to 12 | 13 to 15 | 16 to 19 | 20 | 21 | 22 |  
Galvanizing Wire (extra per bundle).... |  
Best Selected Charcoal Wire ..... | per bundle extra, net.  
Ditto Tinned do. .... | "  
Ditto Tinned Iron Wire ..... | "  
Coppered Wire ..... | "  
Bottling Wire, cut in Lengths, 9d. per stone extra.  
Wire put in ½ and 1 lb. hanks, 2/; in ¼ lb., 2/6 per bundle extra.  
Papering, 2d.; Cotton Bagging, 1½d. per bundle.  
Cast Steel Flat, Oval, Half-round, Three-square, Fluted, Concavo, and Square Wire, to order.  
Hand-Hammered Steel, Flat, Half-flat, and Square. | S.C. Sizes. |  
No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  
| | | | | | | | | | | | | | | | | per lb.  
No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  
Hand-Hammered Steel, Round. | S.C. |  
| | | | | | | | | | | | | | | per lb.

## THE ILLUSTRATED SHEFFIELD LIST.

## STEEL.

BLISTER STEEL—Sykes' Genuine (L) JB Little (S)



Com. SWEDES.

	Best, Warranted.	2nd Quality, very good.	3rd Quality, good.		Best, Warranted.	2nd Quality, very good.	3rd Quality, good.
CALICO ENGRAVERS' STEEL, Warranted .....				WIRE CAST STEEL, No. 4 Iron Wire Gauge.....			
TOOL CAST STEEL, for Chip- ping Chisels, Drills, &c. ....				Do. COMMON do. do.			
TOOL CAST STEEL, for Turn- ing Tools and Planing Tools..				FILE CAST STEEL, $\frac{1}{2}$ inch and above.....			
IMPROVED do., for Taps and Dies, Snaps and Punches ....				Do. COMMON do. do.			
Tilted, Square, Round, Oval, Oc- tagon, Flat, or Three-square, $\frac{1}{2}$ inch and above .....				RAZOR CAST STEEL .....			
IMPROVED SILVER STEEL, made expressly for Smiths' Cold Chisels, Boiler Makers' Tools, Punches, Cups, Shear Blades, Cutters, &c. ....				PEN KNIFE do. ....			
DOUBLE SHEAR STEEL, do.				POCKET do. do. ....			
SINGLE do. do. do.				PIN OR BROOCH CAST STEEL, $\frac{1}{2}$ inch and above.....			
GERMAN OR TILTED do.				CAST STEEL, for Boiler Plates..			
COMMON ROLLED do. do.				ROLLED STEEL, for Plough Plates .....			
WELDING CAST do. do.				Do. do. do., cut to pattern			
SPINDLE CAST do. do.				CAST STEEL IN SHEETS, for			
Do. COMMON do. do.				CIRCULAR SAWS .....			
SPRING STEEL, for Railway and other Carriages .....				MILL SAWS .....			
DRIFT BOLT STEEL, Round or Octagon .....				PIT SAWS.....			
COTTER or KEY STEEL .....				CROSS CUT SAWS, &c. ....			
PAPER MILL (COMMON) STEEL PLATES .....				CAST STEEL in SHEETS, up to No. 20 I. W. G. ....			
Do. (DOUBLE SHEAR) do.				Do. do. 20 to 23 do.			
Do. CAST do.				Do. do. 24 to 26 do.			
In lengths as required.				Do. do. 27 & 28 do.			
PISTON ROD COMMON STEEL				Do. do. 29 & 30 do.			
CAST STEEL for Piston Rods, Side Bars, Mandrills, &c. ....				NOTE.—If more than 5 feet by 18 ins., extra price is charged.			
				NOTE.—In ordering Steel, it is particu- larly recommended that the purpose for which it is to be used should be stated, in order that the proper temper may be supplied.			

Draw-  
ings. No.

IRON AND TINPLATE WORKERS' MACHINES.

	No.	1	2	3				
Burring Machine or Jenney .....	40/0	40/0	66/6	each.				
Turn-up or Wiring Machines .....	80/0	106/6	..	"				
Beading or Swaging Machines, with 1 pair of Rollers .....	40/0	57/0	..	"				
Extra Rollers, per pair, ordinary patterns, 6/6 to 8/0.								
Cramp Folding Machine, No. 1A, 20 inch long, 112/0; No. 1, 31 inch, 147/0; No. 2, 36 inch, 187/0.								
Folding Machine, 7 feet 2 inches long, £20.								
	17	20	26	inches long				
Angle Bending Machine .....	80/0	160/0	215/0	each.				
Ditto, 48 inches, to work by Hand or Power, £40.								
	No.	1	1½	2	3	4		
		17½	20	26	36	48	inches long.	
Folding Machine, with Parallel Slide.....	48/0	54/0	80/0	120/0	188/0	each.		
Tube Rollers, 18 inches long, 1 inch diameter, 87/0.								
	No.	1	2	3	4	5	6	
		25	28	36	36	48	60	inches long.
		1½	1½	2	2½	3½	3½	„ diam.
Bending Rollers .....	£4	£5	£7 7s.	£10 14s.	£28	£37 10s.		
					5	6	8	ft. long.
					5	6½	8	in. diam.
Bending Rollers, on stronger Frames, to work by Hand or Power..	£49 10s.							
Raising Machine, with Crank, £26 15s.								
								£ s. d.
Circle Cutting Machine, No. 1, 2½ to 14 inches diameter.....								3 7 0
Ditto ditto, No. 2, 3 to 18 ditto .....								6 7 0
Extra Cutters for above, per pair, 3/6 and 5/6.								
Ditto ditto, No. 3, 5 to 36 inches diameter .....								11 7 6
Ditto ditto, Strong, N o. 4, 5 to 36 ditto .....								14 14 0
Ditto, for Hand or Power, No. 5, 5 to 36 ditto .....								16 14 0
Straight Cutting Circular Shears, or Clipping Engine, for Sheet Iron :—								£ s. d.
1 To Cut 1 to 13 inches broad, any length to 16 W. G. thick, by Hand .....								9 16 0
2 " 1 to 24 " " " " " " .....								16 0 0
2A " 1 to 36 " " " " " " .....								22 0 0
3 " 1 to 18 " " " " " " .....								32 0 0
4 " 1 to 24 " " " " " " .....								45 10 0
		12	18	20	30	inches long.		
Guillotine Shears, for Sheet Iron .....	80/0	120/0	127/0	215/0	each.			
		20	30	36	inches long.			
Squaring Shears, for Cutting Sheet Metals.....	174/0	287/0	400/0	each.				
1 Bath Beading Machine, with 1 pair Rollers, 84/0; extra Rollers, per pair, 10/8.								
2 Ditto ditto, with 5 patterns, £11 5s.								
	No.	1	2	3	4			
		18	24	30	36	inches long.		
Grooving Machine.....	67/0	87/0	160/0	268/0	each.			
Panling Down Machine .....	45/6	67/0	..	..	„			
Bottom Closing Machine, 10 inches deep, 47/0; 15 inches deep, 67/0.								
	No.	1	2	3	4			
Eccentric Punching Machine, to punch 5 inches from Edge ....	94/0	147/0	..	..	175/0	215/0		
Ditto ditto ditto 12 and 15 in. respectively   ..   ..   175/0   215/0								
Stamping Press.....No.	1	2	3	4				
Between Puppets .....	6	8	12	18	inches.			
Weight .....	..	10	20	30	cwt.			
Price.....	£8	£21 7s. 6d.	£32	£45 10s.	each.			



## THE ILLUSTRATED SHEFFIELD LIST.

Des-  
cript.

No.

## TINMEN'S, BRAZIER'S, AND COPPERSMITHS' TOOLS.

	£	s.	d.	
Solid Cast Steel Anvils .. .. .	0	2	6	per lb.
Iron and Steel Faced do. . . . .	0	1	8	"
Solid Cast Steel Bottom Stakes .. . . .	0	2	6	"
Iron and Steel Faced ditto .. . . .	0	1	8	"
Solid Cast Steel Round Bottom Stakes .. . . .	0	2	6	"
Iron and Steel Faced ditto .. . . .	0	1	8	"
Half-moon Stakes .. . . .	0	1	3	"
Hatchet Stakes .. . . .	0	1	2	"
Anvil Stakes .. . . .	0	1	6	"
Funnel Stakes, Wrought Iron .. . . .	0	1	4	"
Ditto, Cast Iron .. . . .	0	0	6	"
Side Stakes, Wrought Iron .. . . .	0	1	3	"
Ditto, Cast Iron .. . . .	0	0	6	"
Pipe Stakes, Wrought Iron .. . . .	0	1	3	"
Ditto, Cast Iron .. . . .	0	0	6	"
Extinguisher Stakes .. . . .	0	1	4	"
Saucepan Belly Stakes .. . . .	0	1	4	"
Grooving Stakes .. . . .	0	2	0	"

	STEEL FACED.			SOLID CAST STEEL.			
	£	s.	d.	£	s.	d.	
Block Hammers .. . . .	0	1	9	0	2	6	per lb.
Planishing ditto .. . . .	0	1	9	0	2	6	"
Flat ditto .. . . .	0	1	9	0	2	6	"
Convex ditto .. . . .	0	1	9	0	2	6	"
Concave, 1 lb. and under .. . . .	0	1	9	0	3	0	"
Creasing and Paning Hammers .. . . .	0	1	9	0	2	6	"
Rivetting ditto .. . . .	0	1	9	0	2	6	"
Smoothing ditto .. . . .	0	1	9	0	2	6	"
Hollowing ditto .. . . .	0	1	9	0	2	6	"
Square Faced ditto 1 lb. and under .. . . .	0	1	9	0	2	6	"
Tea Kettle Heads,—Round, Long, and Oval .. . . .	0	1	6	0	2	6	"
Pepper or Flour Box, or Teapot Top Head .. . . .	0	1	8	0	2	6	"
Teapot Neck Tool .. . . .	0	1	6	0	2	6	"
Creasing Iron .. . . .	0	1	9	0	2	6	"
Tinmen's Beck Irons, Small .. . . .	0	1	6	..	..	..	"
Ditto ditto, above 60 lbs. .. . . .	0	1	3	..	..	..	"
Ditto ditto, Cast Iron .. . . .	0	0	6	..	..	..	"

Hollow Punches, per Set of 12, 44/0.

	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	$\frac{1}{128}$	$\frac{1}{256}$	$\frac{1}{512}$	$\frac{1}{1024}$	$\frac{1}{2048}$	$\frac{1}{4096}$	inch.
Hollow Punches ..	2/0	2/4	2/8	3/0	3/4	3/8	4/0	4/4	4/8	5/4	5/8	6/0	6/6	7/0	each.	

Groove Punches, 2/4 to 6/0 each.

Rivet Sets, 2/0 to 4/8 each.

Kettle Lid Swages, 24/0 each.

Soldering Gibbets, 40/0 each.

Stud Boss and Two Punches, 16/0 per Set.

Follies, 1/4 per lb.; Copper Soldering Bits, 1/10 per lb.

Soldering and Bossing Irons, 10d. per lb.

Tinmen's and Braziers' Horses, 1/4 per lb.

## THE ILLUSTRATED SHEFFIELD LIST.

## MACHINE-MADE NUTS.

SIZES, WHITWORTH'S STANDARD, HEXAGON AND SQUARE, TAPPED OR UNTAPPED.

DESCRIPTION.	SIZES OF NUTS.															
	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4
Size of Hole .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
Diameter across Flats .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
Diameter of Angles .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
Thickness .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
No. of Threads to the Inch .....	18	16	14	12	11	10	9	8	7	7	7	6	6	5	4 1/2	4 1/2
PER CWT.																
PER GROSS.																
PRICES.																
Square Nuts, Untapped .....	1/0	1/3	1/6	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0
Ditto ditto, Tapped .....	1/9	2/1	2/7	3/3	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0
Hexagon ditto, Untapped .....	2/1	2/4	2/9	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0
Ditto ditto, Tapped .....	2/9	3/3	3/9	4/3	35/0	30/0	28/6	27/6	27/9	27/9	28/9	28/9	30/0	30/0	31/6	33/6

## HEXAGON AND SQUARE, TAPPED OR UNTAPPED.

The Sizes given are Watkins and Keen's Standard.

DESCRIPTION.	SIZES OF NUTS.															
	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4
Size of Hole .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
Diameter across Flats .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
Diameter across Angles .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
Thickness .....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4	5 1/2
No. of Threads to the Inch .....	18	16	14	12	11	10	9	8	7	7	7	6	6	5	4 1/2	4 1/2
PER CWT.																
PER GROSS.																
PRICES.																
Square Nuts, Untapped .....	1/6	1/7	26/0	24/0	22/0	20/0	18/6	19/0	19/0	20/0	20/0	21/0	21/0	22/0	23/0	25/0
Ditto ditto, Tapped .....	2/1	2/6	36/0	32/0	28/0	24/0	22/0	22/0	22/0	22/9	22/9	23/9	24/0	25/0	26/6	28/6
Hexagon ditto, Untapped .....	2/6	3/0	37/0	33/0	29/0	26/0	25/0	24/0	24/0	25/0	25/0	26/0	27/0	27/0	28/0	30/0
Ditto ditto, Tapped .....	3/3	3/9	47/0	42/0	36/0	30/0	28/6	27/0	27/0	27/9	28/9	28/9	30/0	30/0	31/6	33/6

Nuts furnished Thicker or Thinner will be charged extra.

## THE ILLUSTRATED SHEFFIELD LIST.

No.		HAND-MADE NUTS.—Whitworth's Standard Sizes.															
Size of Nuts	.....	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$4$	inch.
Size of Hole	.....	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$4$	"
Diameter across Flats	.....	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$4$	"
Thickness	.....	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$4$	"
No. of Threads to the In.	.....	20	18	16	14	12	11	10	9	8	7	6	5	4	3	2	"
Square Nuts, Untapped	1/0	1/3	1/9	2/3	gross.	24/0	23/0	22/0	22/0	22/0	22/0	22/0	22/0	22/0	22/0	22/0	cwt.
Ditto, Tapped	1/9	2/1	2/10	3/3	"	30/0	27/0	25/6	25/6	25/0	25/0	24/9	24/9	24/9	24/9	24/9	"
Hexagon Nuts, Untapped	2/3	2/6	2/10	3/3	"	32/0	28/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	26/0	"
Ditto, Tapped	2/11	3/5	3/10	4/11	"	38/0	32/0	29/6	29/0	29/0	28/9	28/9	28/9	28/9	28/9	28/9	"

Nuts deviating from Standard Sizes, either in Thickness or Breadth, will be charged the following extras, viz. :—

$\frac{1}{4}$ to $\frac{1}{2}$ inclusive, if deviating to 1-16	1-16 to $\frac{1}{2}$	$\frac{1}{2}$ to 3-16	3-16 to $\frac{1}{2}$
5 per cent.	10 per cent.	15 per cent.	20 per cent. extra.
$\frac{1}{2}$ to 2 inclusive, if deviating to $\frac{1}{2}$	$\frac{1}{2}$ to $\frac{1}{2}$	$\frac{1}{2}$ to $\frac{1}{2}$	$\frac{1}{2}$ to $\frac{1}{2}$
5 per cent.	10 per cent.	15 per cent.	20 per cent. extra.

**FOR STANDARD SIZES OF BOLTS AND NUTS OF BEST IRON,**  
With Hexagon, Square, Rose, Cheese, or Countersunk Heads, and Square Nuts, Screwed to Whitworth's Standard Thread.

Stand. Size of Hexagon and Square Head Bolts.	$\frac{1}{4}$ in. diam.	$\frac{1}{2}$ in. diam.	$\frac{3}{4}$ in. diam.	$1\frac{1}{4}$ in. diam.	$1\frac{1}{2}$ in. diam.	$1\frac{3}{4}$ in. diam.	$2$ in. diam.	$2\frac{1}{4}$ in. diam.	$2\frac{1}{2}$ in. diam.	1 to $2\frac{1}{2}$ in. diam. size head for 1 in.
Diameter across Flats	$\frac{3}{4}$ in.	$1\frac{1}{4}$ in.	$1\frac{3}{4}$ in.	$2\frac{1}{4}$ in.	$2\frac{1}{2}$ in.	$2\frac{3}{4}$ in.	$3\frac{1}{4}$ in.	$3\frac{1}{2}$ in.	$3\frac{3}{4}$ in.	$1\frac{1}{2}$ in.
Thickness of Heads	$\frac{1}{4}$ in.	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	$1\frac{1}{4}$ in.	$1\frac{1}{2}$ in.	$1\frac{3}{4}$ in.	$2$ in.	$2\frac{1}{4}$ in.	$2\frac{1}{2}$ in.	$2\frac{1}{2}$ in.

LENGTH OF BOLTS.	PER GROSS.			PER CWT.					
Not above $1\frac{1}{2}$ in. long	4/3	5/0	5/9	28/6	27/6	24/6	23/0	23/0	23/0
Above $1\frac{1}{2}$ & up to $2\frac{1}{2}$ in.	4/9	5/6	6/10	27/6	26/6	23/6	22/0	22/0	22/0
" $2\frac{1}{2}$ " 4 "	5/6	6/6	8/3	26/6	26/0	22/6	21/0	21/0	21/0
" 4 " 6 "	6/6	8/0	9/6	25/6	25/0	21/6	20/0	20/0	20/0

Nicked Heads and Bright Heads, 1/0 per gross extra.

All Bolts and Nuts will be supplied as per dimensions designated "Standard Size," unless otherwise ordered.

All Bolts with Square Necks will be charged as follows, in addition to the above price, viz. :— $\frac{1}{4}$  in., 3d.;  $\frac{1}{2}$  in., 6d.;  $\frac{3}{4}$  in., 6d. per gross;  $\frac{1}{2}$  in. and upwards, 1s. 6d. per cwt.

For  $\frac{1}{4}$  in.,  $\frac{1}{2}$  in., and  $\frac{3}{4}$  in. Bolts, with Hexagon Nuts, 9d. per gross extra; and for all other sizes sold at per cwt., 1s. 6d. per cwt. will be charged in addition to the above prices.

Bolts supplied with Heads and Nuts deviating from the above Standard Size (if they are more costly to make) will be charged accordingly.

The Heads of all Bolts are made out of the solid, not welded. The rule for measuring Bolts is from under Head to Point, and not between Head and Nut.

When orders are given, please be particular to give description of Head, Neck, and Nut, and say whether the Nuts are to fit tight, medium, or slack.

When comparing prices it is important that particular reference be made to the lengths given, in order that a correct estimate be made with other lists; also, it must be understood that the prices include carriage on parcels of 4 cwt. and upwards.

The above prices include delivery only on parcels of 4 cwt. and upwards.

## IRON WASHERS.—No. 14 W.G. or THINNER.

No. to indicate size of washer.	Size of Hole.	Per Gross.	No. to indicate size of Washer.	Size of Hole.	Per Gross.
00	3-16	0/6	8	$\frac{1}{2}$	1/10
0	$\frac{1}{4}$	0/6	9	13-16	2/4
1	5-16	0/6	10	$\frac{3}{4}$	2/9
2	$\frac{3}{8}$	0/7	11	15-16	3/3
3	7-16	0/8	12	1	4/2
4	$\frac{1}{2}$	0/10	13	$1\frac{1}{4}$	5/2
5	9-16	1/0	14	$1\frac{1}{2}$	6/3
6	$\frac{5}{8}$	1/2	15	$1\frac{3}{4}$	7/4
7	11-16	1/6	16	2	8/6

The diameter of Hole is exactly one-half Outside Diameter.

Weighty Washers ..... 22/0 per cwt.

Ditto ditto ..... 19/6

Ditto ditto ..... and upwards, 17/6 per cwt.

Thick Washers, extra per cwt.

Stamped Convex Washers	80/	86/	86/	48/	41/	34/	31/	29/	28/	27/	26/	per cwt.
------------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----------

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count. No.

## BRIGHT HEAD COACH BOLTS, WITH SQUARE NUTS.

LENGTH OF BOLT.	$\frac{1}{2}$	5-16	$\frac{3}{8}$		7-16	$\frac{1}{2}$	9-16	$\frac{5}{8}$	inch.
Not above $1\frac{1}{2}$ inch .....	4/9	5/6	6/6	per gross.	31/0	30/0	28/6	27/0	per cwt.
Above $1\frac{1}{2}$ inch and up to $2\frac{1}{2}$ inch ..	5/3	6/3	7/6	"	30/0	28/6	27/3	26/0	"
" $2\frac{1}{2}$ " " 4 " ..	6/0	7/3	9/0	"	28/6	27/6	26/0	24/6	"
" 4 " " 6 " ..	7/0	8/9	10/3	"	27/0	26/0	24/6	23/0	"

If Hexagon Nuts, 9d. per gross in advance of the above; and for those at per cwt., 1s. 6d. extra.

BOLT ENDS, WITH HEXAGON OR SQUARE NUTS	$\frac{1}{2}$	7-16	$\frac{1}{2}$	9-16	$\frac{5}{8}$	11-16	$\frac{3}{4}$	$\frac{7}{8}$ to $1\frac{1}{2}$
	22/0	19/6	17/0	16/6	16/0	15/6	15/6	15/6

If Hexagon Nuts, 1s. per cwt. in advance of the above prices.

For Standard Sizes of HEXAGON, SQUARE, ROSE, CHEESE, &amp; COUNTERSUNK MACHINE SET SCREWS, Heads same Thickness as Diameter of Screw, Sizes across Flats same as Bolts, see page 118.

LENGTH OF SCREWS.	$\frac{1}{2}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$
Not above 1 inch .....	2/7	3/6	4/3	5/3	6/3
Above 1 inch and up to $1\frac{1}{2}$ inch .....	3/2	3/9	4/6	5/6	6/7
" $1\frac{1}{2}$ " " $1\frac{1}{2}$ " .....	3/6	4/0	4/9	5/10	7/0
" $1\frac{1}{2}$ " " 2 " .....	4/0	4/3	5/0	6/4	7/4
" $1\frac{1}{2}$ " " 2 " .....	4/3	4/9	5/3	6/8	8/0
" 2 " " 2 " .....	"	"	5/6	7/0	8/0
" $2\frac{1}{2}$ " " 2 " .....	"	"	5/9	7/4	8/6
" $2\frac{1}{2}$ " " 3 " .....	"	"	6/3	7/9	8/9

Bright Heads, Nicked Countersunk, and Cheese Heads, 1/0 per gross extra.

All sizes above  $\frac{1}{2}$  inch diameter, precisely the same price as Bolts.—(See page 118.)

Machine Set Screws deviating from the above standard sizes, if they are more costly to manufacture, will be charged accordingly.

## COACH SCREWS, WITH HEXAGON OR SQUARE HEADS POINTED.

	$\frac{1}{2}$	5-16	
Not above $1\frac{1}{2}$ inch long .....	2/6	3/3	per gross.
Above $1\frac{1}{2}$ inch up to 3 inches long .....	3/3	4/3	"
" $\frac{1}{2}$ 7-16 $\frac{1}{2}$ 9-16 $\frac{5}{8}$ 11-16 $\frac{3}{4}$ 13-16 $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ "			
All Lengths 32/ 32/ 27/ 27/ 24/ 23/ 22/9 22/9 22/9 24/ 24/ 28/ 28/ cwt.			

## BEST RIVETS.

Diameter ....	3-16	$\frac{1}{2}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	9-16	$\frac{5}{8}$	11-16	$\frac{3}{4}$	13-16	$\frac{1}{2}$	1
Per cwt. ....	32/0	26/0	23/0	20/6	19/6	18/3	17/0	16/0	15/0	15/0	15/0	15/0	15/0

The above Prices include delivery only on Parcels of 4 cwt. and upwards.

## TYRE BOLTS, WITH SQUARE NUTS.—Standard Sizes.

Diameter ..	$\frac{1}{2}$	5-16	$\frac{3}{8}$		7-16	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 to $1\frac{1}{2}$	inches.
Not above $1\frac{1}{2}$ in. long .....	5/3	6/0	7/0	per gross.	30/6	28/0	26/0	24/6	23/0	23/0	per cwt.
Above $1\frac{1}{2}$ to $2\frac{1}{2}$ " ..	5/9	6/6	8/0	"	29/6	27/0	25/0	23/6	22/0	22/0	"
" $2\frac{1}{2}$ to 4 " ..	6/6	7/6	9/6	"	28/6	26/0	24/0	22/6	21/0	21/0	"

Hexagon Nuts, extra 9d. per gross; 1/6 per cwt.

Standard sizes	$\frac{1}{2}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	inch.
Tyre Rivets .....	40/0	35/0	31/0	28/0	25/6	23/6	22/0	20/0	per cwt.
Coopers' Rivets .....	27/6	24/6	22/0	21/0	19/9	"	"	"	"
Gasometer Rivets .....	33/0	31/0	29/6	28/6	27/6	"	"	"	"
Boiler Cotter Bolts .....	"	"	55/0	48/0	42/0	34/9	28/0	22/6	20/0
Steel Cotters, for above Bolts ..	"	"	0/6	0/6	0/5	0/4	0/4	0/4	per lb.
Jagged or Lewis Bolts ....	"	"	34/0	30/6	28/0	26/0	25/0	24/0	(to $1\frac{1}{2}$ in.) cwt.
Eye Bolts, for Fencing ....	"	"	29/0	25/0	22/6	20/6	19/0	"	"
Bolts Screwed each end, ..	"	"	28/0	25/0	23/6	21/6	20/6	20/0	20/0 & upwards "

If with Hexagon Nuts, 1/0 per cwt. extra.

## SPLIT COTTER AND LINCH PINS.

Length	1	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{1}{2}$	4	inches.
No. 12....	1/1	1/2	1/4	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/8	2/8	2/10	3/0
" 11....	1/2	1/3	1/5	1/7	1/9	1/11	2/1	2/3	2/5	2/7	2/9	2/9	2/11	3/2
" 10....	1/3	1/4	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/8	2/10	3/0	3/3	3/3
" 9....	1/4	1/5	1/7	1/9	1/11	2/1	2/3	2/5	2/7	2/9	3/0	3/3	3/6	3/6
" 8....	1/5	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/9	3/0	3/3	3/6	3/9	4/0
" 7....	1/6	1/8	1/10	2/0	2/2	2/4	2/6	2/9	3/0	3/3	3/6	3/9	4/2	4/6
" 6....	1/9	1/11	2/1	2/3	2/5	2/8	2/11	3/2	3/5	3/8	3/11	4/2	4/6	5/4
" 5....	2/0	2/3	2/6	2/9	3/0	3/3	3/6	3/9	4/0	4/4	4/8	5/0	5/4	6/4
" 4....	2/4	2/7	2/11	3/3	3/6	3/9	4/0	4/4	4/8	5/0	5/6	5/10	6/3	7/6
" 3....	2/8	3/0	3/4	3/8	4/0	4/4	4/8	5/0	5/6	6/0	6/6	7/0	7/6	8/6
" 2....	3/0	3/4	3/8	4/0	4/6	5/0	5/6	6/0	6/6	7/0	7/6	8/0	8/6	9/4
" 1....	3/4	3/8	4/0	4/6	5/0	5/6	6/0	6/6	7/0	7/6	8/0	8/6	9/4	"
Length	$2\frac{1}{2}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	$5\frac{1}{2}$	per gross.
5-16 ..	9/0	9/8	10/4	11/0	11/8	12/6	13/4	14/0	14/8	15/4	16/0	16/8	17/4	"
" ..	10/0	10/8	11/4	12/0	12/8	13/4	14/0	14/8	15/4	16/0	16/8	17/4	18/0	"
7-16 ..	10/0	11/8	12/6	13/4	14/0	14/8	15/4	16/0	16/8	17/4	18/0	18/8	19/4	"



## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

## BRASS AND COPPER WOOD SCREWS.

$\frac{1}{8}$ Inch.		$\frac{3}{16}$ Inch.		$\frac{1}{4}$ Inch.		$\frac{5}{16}$ & 1 Inch.		$1\frac{1}{2}$ Inch.	
No.	Per Gross.	No.	Per Gross.	No.	Per Gross.	No.	Per Gross.	No.	Per Gross.
4	1/6	4	1/8	4	1/10	6	2/9	6	3/3
5	1/7	5	1/10	5	2/0	7	3/0	7	3/7
6	1/9	6	2/0	6	2/3	8	3/4	8	4/0
7	2/0	7	2/3	7	2/6	9	3/8	9	4/5
8	2/3	8	2/5	8	2/8	10	4/1	10	4/11
9	2/6	9	2/8	9	3/0	11	4/6	11	5/5
10	2/9	10	3/0	10	3/4	12	5/0	12	6/0
11	3/4	11	3/4	11	3/10	13	5/7	13	6/8
12	3/8	12	3/8	12	4/4	14	6/3	14	7/5
		13	4/6	13	4/10	15	7/0	15	8/3
		14	5/9	14	5/9	16	7/10	16	9/2
				16	7/10	17	8/11	17	10/4
						18	10/0	18	11/6
								20	14/2

$1\frac{1}{2}$ Inch.		$1\frac{3}{4}$ Inch.		2 Inch.		$2\frac{1}{4}$ Inch.		$2\frac{1}{2}$ Inch.	
No.		No.		No.		No.		No.	
8	4/8	9	5/11	10	7/5	10	8/3	12	11/0
9	5/2	10	6/7	11	8/2	11	9/1	13	12/1
10	5/9	11	7/3	12	9/0	12	10/0	14	13/3
11	6/4	12	8/0	13	9/11	13	11/0	15	14/6
12	7/0	13	8/10	14	10/11	14	12/1	16	15/10
13	7/9	14	9/9	15	12/0	15	13/3	17	17/5
14	8/7	15	10/9	16	13/2	16	14/6	18	19/0
15	9/6	16	11/10	17	14/7	17	16/0	20	22/6
16	10/6	17	13/2	18	16/0	18	17/8	22	26/5
17	11/9	18	14/6	20	19/2	20	20/10	24	30/8
18	13/0	20	17/6	22	22/9	22	24/7	26	36/0
20	15/10	22	20/11	24	26/8	24	28/8		

$2\frac{3}{4}$ Inch.		3 Inch.		$3\frac{1}{2}$ Inch.	
No.		No.		No.	
14	14/5	14	15/7	14	
15	15/9	15	17/0	15	
16	17/2	16	18/6	16	
17	18/10	17	20/3	17	
18	20/6	18	22/0	18	
20	24/2	20	25/10	20	
22	28/3	22	30/1	22	
24	32/8	24	34/8	24	

## PATENT IRON WOOD SCREWS.

	[0/8]	[0/8]	[0/8]	[0/8]	[0/9]	[0/9]	[0/11]	[1/0]	[1/1]	[1/2]	[1/3]	[1/4]	[1/8]	[1/10]	[2/2]	[2/5]	[2/8]
$\frac{1}{8}$ inch..... No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	[0/9]	[0/9]	[0/9]	[0/10]	[0/11]	[1/0]	[1/1]	[1/2]	[1/3]	[1/4]	[1/5]	[1/8]	[1/10]	[2/2]	[2/6]	[2/9]	[3/2]
$\frac{3}{16}$ inch..... No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	[0/10]	[0/10]	[0/11]	[1/0]	[1/1]	[1/1]	[1/2]	[1/3]	[1/4]	[1/5]	[1/8]	[1/10]	[2/2]	[2/6]	[2/10]	[3/2]	[3/4]
$\frac{1}{4}$ inch..... No.	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	[1/0]	[1/1]	[1/1]	[1/2]	[1/3]	[1/3]	[1/4]	[1/5]	[1/6]	[1/7]	[1/10]	[2/0]	[2/3]	[2/7]	[2/10]	[3/2]	[4/0]
1 inch..... No.	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	[1/3]	[1/4]	[1/5]	[1/5]	[1/6]	[1/7]	[1/9]	[1/11]	[2/1]	[2/4]	[2/8]	[3/0]	[3/3]	[3/7]	[4/0]	[4/5]	[4/9]
$1\frac{1}{4}$ inch..... No.	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	[1/6]	[1/6]	[1/7]	[1/8]	[1/9]	[1/11]	[2/1]	[2/4]	[2/8]	[3/0]	[3/4]	[3/8]	[4/0]	[4/5]	[4/9]	[5/2]	[5/6]
$1\frac{1}{2}$ inch..... No.	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	[1/10]	[1/11]	[1/11]	[2/0]	[2/2]	[2/4]	[2/8]	[3/0]	[3/4]	[3/8]	[4/0]	[4/5]	[4/9]	[5/2]	[5/6]	[5/11]	[6/4]
$1\frac{3}{4}$ inch..... No.	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	[2/0]	[2/1]	[2/2]	[2/4]	[2/8]	[3/0]	[3/4]	[3/8]	[4/0]	[4/5]	[4/9]	[5/2]	[5/6]	[5/11]	[6/4]	[6/8]	[7/1]
2 inch..... No.	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	[2/5]	[2/6]	[2/8]	[3/0]	[3/4]	[3/8]	[4/0]	[4/5]	[4/9]	[5/2]	[5/6]	[5/11]	[6/4]	[6/10]	[7/6]	[8/2]	[8/8]
$2\frac{1}{4}$ inch..... No.	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	[2/8]	[3/0]	[3/4]	[3/8]	[4/0]	[4/5]	[4/9]	[5/2]	[5/6]	[5/11]	[6/4]	[6/10]	[7/4]	[7/10]	[8/8]	[9/4]	[10/4]
$2\frac{1}{2}$ inch..... No.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	[3/4]	[3/8]	[4/0]	[4/5]	[4/9]	[5/2]	[5/10]	[6/6]	[7/0]	[7/6]	[8/0]	[8/8]	[9/4]	[10/4]	[11/0]	[12/0]	[13/9]
$2\frac{3}{4}$ inch..... No.	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
	[4/0]	[4/5]	[4/9]	[5/2]	[5/10]	[6/6]	[7/3]	[7/11]	[8/7]	[9/4]	[10/2]	[10/11]	[11/8]	[13/0]	[13/9]	[14/6]	[15/3]
3 inch..... No.	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	[5/3]	[5/7]	[5/10]	[6/6]	[7/2]	[8/1]	[9/0]	[9/10]	[10/8]	[11/6]	[12/4]	[13/0]	[13/8]	[14/4]	[15/0]	[16/0]	[17/0]
$3\frac{1}{2}$ inch..... No.	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	[6/6]	[7/2]	[8/1]	[9/0]	[9/10]	[10/8]	[11/6]	[12/4]	[13/0]	[13/8]	[14/4]	[15/0]	[16/0]	[17/0]	[18/0]	[19/0]	[20/0]
4 inch..... No.	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

DIS-  
COUNT.

No.	SPECIAL PRICES FOR THE FOLLOWING ARTICLES, VIZ.:—																
Railway, Fish, and Fang Bolts. Railway Spikes of all Descriptions. Railway Carriage and Wagon Bolts and Nuts. Railway Carriage Ironwork. Smiths' Work, and Forgings of all Descriptions.	Engineers' Best Hammered Bolts and Nuts. Engineers' Bright Bolts and Nuts. Engineers' Bright Nuts. Engineers' Bright Studs. Engineers' Bright Studs, with Collars.																
Patent Lap-Welded Iron Boiler Tubes, for Locomotive, Marine, & Agricultural Engines.																	
Inch Extnl. Diam.	1½	1¾	1⅞	2	2¼	2½	2¾	3	3½	4	4½	5	5½	5¾	6	7	7½
Thickness W. G.	14	14	18	18	18	19	19	12	11	11	10	10	9	9	8	8	7
Price per Foot ..	.74	.74	.74	.74	.74	.74	.74	1/0	1/8	1/6	1/8	2/0	2/8	2/9	3/0	3/8	3/4
Lap-Welded Tubes, thicker than the above Gauges, for Stays, &c., at Lap-Welded Steel Boiler Tubes made to order.																	
Stay Tubes, up to 6 inches diam., Screwed to order.																	
PATENT LAP-WELDED IMPROVED IRON BOILER TUBES.																	
Inch Extnl. Diam.	1½	1¾	1⅞	2	2¼	2½	2¾	3	3½	4	4½	5	5½	5¾	6	7	7½
Thickness W. G.	17	17	16	15	15	15	14	14	14	18	18	12	11	11	11	10	10
Price per Foot ..	.74	.74	.74	.74	.74	.74	.74	1/0	1/1	1/8	1/6	1/8	2/0	2/8	2/9	3/0	3/4
Lap-Welded Steel Boiler Tubes made to order.																	
PATENT LAP-WELDED SCREWED & SOCKETTED STEAM TUBES.																	
Inches, Internal Diameter ....	1	1½	1½	1½	2	2½	2½	2½	3	3½	4	4½	5				
Thickness W. G. ....	9	9	9	9	8	8	8	8	7	7	7	6	6	6	6	6	6
Price per Foot ..	/8	1/0	1/4	1/7	1/10	2/1	2/5	2/8	3/1	3/7	4/1	5/0	5/9				
Extra strong ditto, made to order; Boring Tubes and Well-Bore Pipes of all sizes, made to order. All the above made to standard sizes, outside diameter.																	
PATENT BOILER TUBE FERRULES.																	
Largest Extnl. Diam. in inch.	1½	1¾	1⅞	2	2¼	2½	2¾	3	3½	4	4½	5	5½	5¾	6	7	7½
Thickness, W. G. ....	12	12	12	11	11	11	11	11	10	10	10	9	9	9	9	8	8
IRON, per 1000 .....	100	100	105	110	130	130	140	150	160	170	180	190	205	230	235	250	265
Stronger Gauges, at £ Cwt..	75	75	65	61	...	...	...	56	...	...	...	...	...	...	54	...	...
STEEL, per 1000 .....	185	185	185	145	165	170	180	190	200	210	225	240	255	275	295	310	330
Stronger Gauges, at £ Cwt..	96	91	...	84	...	...	...	72	...	...	...	...	...	...	68	...	...
Prices will be given for all other descriptions of Steel and Iron Ferrules, on application. All prices for Boiler Tubes refer to lengths up to 16 feet, and for Screwed Steam Tubes up to 15 feet; longer lengths will be quoted for upon application. Tubes and Ferrules of intermediate sizes will be charged as next larger size. Prices quoted for any odd size, or any thickness of Tube.																	
BRASS TUBES.																	
Brass Locomotive and Marine Tubes (Seamless) .....	per lb.																
Brass Surface Condenser Tubes....	Copper Tubes ..... "																
VULCANIZED INDIA RUBBER TUBING.																	
½   3-16   ¼   5-16   ⅜   7-16   ½   ⅝   ¾   1   1½   1¾   1½   2 in.																	
Best Quality ..	per lb.																
Second ditto ..	"																
VULCANIZED INDIA RUBBER SHEET, VALVES, & WASHERS, &c.																	
Valves, for Marine and Land Engines, Pumps, &c.	A	B	ED	EG	NE	F	G	H	per lb.								
Washers, for Flange Joints of Steam and Water Gauges, &c., 1 inch diameter and upwards....	3/9	3/5	2/9	2/6	1/10	1/6	1/3	1/1	"								
Bevil Washers, 3d. per lb. extra	3/9	3/5	2/9	2/6	1/10	1/6	1/3	1/1	"								
Washers, Flat, for Steam Gauges, under 1 in. diam.	6/0	6/6	4/10	4/4	3/10	3/1	..	..	"								
Ball Valves, Solid Rubber .....	5/6	..	..	..	..	..	..	..	"								
Ball Valves, on Solid or Wooden Cores .....	4/6	..	..	..	..	..	..	..	"								
Springs, for Metallic Pistons or Slide Valves....	3/9	3/5	2/9	..	..	..	..	..	"								
Bearing and Check Springs, for Road Carriages	4/3	3/6	2/9	2/6	1/10	1/6	..	..	"								
Buffer Rings and Bearing Springs, for Locomo- tives, Carriages, Trucks, &c.....	4/3	3/5	2/9	2/6	1/10	1/6	..	..	"								
Gas Bags, for Repairing Mains.....	7/6	..	..	..	..	..	..	..	"								
Rope Packing, Round or Square .....	..	..	..	..	1/4	..	..	..	"								
Bevila, 3d. per lb. extra.	..	..	..	..	..	..	..	..	"								
Elastic Core Packing, Round or Square .....	..	..	..	..	2/0	..	..	..	"								
Deckle Straps, for Paper Makers .....	..	..	5/6	..	..	..	..	..	"								
Wheel Tyres (noiseless), for Carriages, Ware- house and Station Trucks .....	3/9	3/5	2/9	..	..	..	..	..	"								
Bucket Rings, for Hot and Cold Water Pumps..	3/9	3/5	2/9	2/6	1/10	1/6	..	..	"								
Pump Buckets, for Hand Pumps .....	..	5/9	..	..	..	..	..	..	"								
Plumbers' Closet Cones .....	6/0	..	..	..	..	..	..	..	"								
Rollers, for Wringing Machines .....	3/9	3/5	2/2	2/6	1/10	..	..	..	"								
Hydraulic Rings .....	7/6	6/6	..	..	..	..	..	..	"								
Washers, Canvas and Rubber, cut from Sheet, No. 1, 3/9; No. 2, 2/6 per lb.																	
Ditto ditto, cut from Cylinder, No. 1, 2/9; No. 2, 1/6 per lb.																	
3-16   ¼   5-16   ⅜   ¾   1   1½   1¾   1½   2 in.	inch.																
Washers, Round, for Gauge Glasses & Sockets   12/6   10/6   9/6   8/6   7/10   7/2   6/6   6/6	per lb.																
Ring Packing, for Pistons, Man Holes, Flanges, &c.—No. 1, 4/; No. 2, 2/10 per lb.																	

## THE ILLUSTRATED SHEFFIELD LIST.

Des-  
criptions. No.

Patent Metallic Packing, 1/9 per lb.

Sheet Rubber (A),  $\frac{1}{8}$  inch thick and upwards; width, 36 to 46 inches, 3/9 per lb." " under  $\frac{1}{8}$  inch, 6d. per lb. extra; under 1-16th inch, 1/ per lb. extra.

Sheet Rubber	B	ED	EG	NE	F	G	H
	.35	29	26	1/10	1/6	1/3	1/1 per lb.

Steam Rubber, 2/1 per lb.; Insertion Washers, Cutting from Sheet, 3d. per lb. extra.

Corrugated Rubber, for Flax Machines, 1-16th in. thick and upwards; A quality, 9 in. wide, 3/9 per lb.

Enamelled Sheets, Black, 1 inch thick and under 11 inch wide, 7/9 per lb.

Billiard Sheets, 6 feet by 12 inches by  $\frac{1}{4}$  inch, 5/10 per lb.

Billiard and Bagatelle Strips, 4 9 per lb.

Sheet Packing, A quality, 1 6 per lb.

## GREY SOLID CORD.

Size	$\frac{1}{8}$ & 3-16	$\frac{1}{4}$ & 5-16	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in. and upwards
A Quality	7 6	7 0	6 10	6 9	6 6	6 3	6 0	5 6 per lb.
B	5 9	5 6	5 4	5 3	5 0	4 9	4 6	4 0

## IMPROVED BOURDON STEAM AND VACUUM GAUGES.

		3	4	5	6	7	in. diam.
70a	Pressure Gauge, "Bourdon Patent," in Round Case, Polished Handle, with Central Hand to indicate 10, 20, 25, 30, 35, 40, 50, 60, 80, 100, or 200 lbs. on the square inch, with Connecting Syphon	26/0	27/0	30/0	33/0	42/0	each
71a	Ditto ditto, to indicate 10, 20, 30, 40, 60, 80, 100, or 200 lbs. square inch, with Gun Metal Cock and Connecting Joint	28/0	29/0	33/0	34/0	46/0	"
72a	Ditto ditto, with Eccentric Hand to indicate 10, 20, 30, 40, 50, 60, 80, 100, or 200 lbs. on the square inch, with Gun Metal Cock and Connecting Joint	26/0	27/0	31/0	34/0	43/0	"
72a	Ditto ditto, with Eccentric Hand, to indicate sizes as 72a, with Connecting Syphon	24/0	33/0	39/0	33/0	39/0	"
74	Vacuum Gauge, "Bourdon Patent," in Round Case, Polished Brass, with Central Hand to indicate Vacuum up to 30 inches of Mercury, fitted with Gun Metal Cock and Connecting Joint	..	29/0	33/0	39/0	46/0	"
68	Pressure Gauge, "Schaeffer Patent," with Central Hand to indicate 10, 20, 30, 40, 50, 60, 80, 100, or 200 lbs. on the square in.	26/0	29/0	33/0	39/0	46/0	"
69	Vacuum Gauge, "Schaeffer Patent," to indicate Vacuum up to 3 inches of Mercury	26/0	29/0	33/0	39/0	46/0	"

HYDRAULIC GAUGES, from 200 to 10,000 lbs. on the square inch. (Gauges with Open Dials may be had if required.)

GIFFARD'S PATENT SELF-ACTING INJECTOR, for Feeding Boilers with Water.—Prices on application.

## ARTESIAN WELL BORING TOOLS, IN SETS.

Very useful sets of small ground Testing Tools, 2 in., 2 $\frac{1}{2}$  in., and 3 in. are packed in chests, for export, and are specially adapted for

## Railway, Dock, and Bridge Works, Mines, Wells, &amp;c.

They consist of 30 feet to 50 feet of  $\frac{1}{4}$  inch or  $\frac{1}{2}$  inch Well Rods, in 6 feet lengths; one of each size, 2 inch, 2 $\frac{1}{2}$  inch, and 3 inch Chisels; one of each size Augers, one of each size Shells, one Pair of Tilters, one small Auger Board, two small Lifting Dogs, a Pair of Pulley Blocks, suitable for same, and two Hand Dogs—Price, £30 to £35.

## MINING TOOLS.

No. 1.—Miners' Shovel, sharp point, made of Iron or Steel.

2. Ditto square point.

3. Bulling Shovel, used for dressing ores.

4. Spanish Hoe.

5. Sledge, used for breaking ores.

6. Mallet, for beating Borers 10 and 11.

7. Miners' Pick, with steeled head, for driving Gad No. 8.

8. Steel Gad, for wedging off large pieces of stone.

9. Cobbing Hammer, used by girls in mines, for breaking ores.

10 &amp; 11.—Borers, for making holes in rocky ground to receive the charge of powder, for blasting.

Black or Bright Mill Shafting, Couplings, Clutches, Strap Pulleys, Plummer Blocks, &amp;c.

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

**PRICES OF NAILS, Delivered at London, Liverpool, Hull, &c.**  
*May 25th, 1826.* Subject to Future Alterations.

**Rose and Flemish Tacks.**

4	5	6	8	10	12	14	Oz.
8½	8½	8½	9½	9½	10½	10½	

Best Flemish same price as Fine Clout.

**Rose, Billed Brads, and Flat Points.**

1½	2	2½	3	4	5	6	7	7½	8	9	10	11	12	Ibs.
1/0½	1/2	1/3½	1/5	1/7½	1/10	2/0½	2/3	2/4½	2/5½	2/8	2/10½	3/1	3/3½	
13	14	16	18	20	21	22	24	28	30	32	36	40	Ibs.	
3/6	3/8	4/1	4/6	4/11	5/2	5/5	5/10	6/8	7/1	7/6	8/4	9/2		

Clasp to 10 lbs., 2d., and larger, 1d. over. Flemish, 2d. over; if Countersunk, 3d. over.  
 Fine B Brads, 4d. over. Lighter to a 13 lb., 3d.; larger, 4d. over. Bermuda and Lap, 1s. over.

	3½	4	4½	5	5½	6	inch, and larger.
Spikes and Drawing....	23/6	23/0	22/6	22/0	22/0	21/6	

Fine, 1/0 more; Deck, 6d. more. X Heads, 1/0, and Fine X Heads, 2s. over.

	3	3½	4	4½	5	5½	6	inch, and larger.
Barge.....	30/0	26/6	25/6	25/0	24/6	24/6	24/0	

Fine, 1/0 more. Ribbing, 5 in. and larger, the same.

Clamp .....	2½ in. and larger, 29/0	Pipe Nails.. 3 in., 40/6; 3½ in. and larger, 39/6
Back .....	3 in. and larger, 35/0	Coach Tire Rivets, 3in. & less, 42/; larger, 40/0
Cart Tire Nails .....	34/0	Pound Nails, 6d. 28/6; 8d. 27/; 10d. 24/; 20d. 23/

	2 and less	2½	3	4	5	6	7	Ibs.
Fine Clasp.....	1/7	1/8	1/10	2/1	2/4	2/7	2/10	

	7	8	10	14	18	22	24	28	32	36	Ibs.
Long Clasp..	2/8	2/10½	3/3½	4/1	4/11	5/10	6/4	7/4	8/4	9/4	

	6d.	8d.	10d.	12d.	20d.		6d.	8d.	10d.	12d.	20d.
Weighty Rose	30/6	28/6	27/6	26/9	26/0	Weighty Clasp	31/6	29/0	28/0	27/0	26/3

	8oz.	12oz.	14oz.	1lb.	1½lb.	1½lb.	2lb.	2½lb.	3lb.	4lb.	5lb.
Battens .....	0/8½	0/9½	0/10	0/10½	0/11½	1/1	1/2	1/5	1/6	1/10	2/1

Fine to 1½ lb., 3d.; and larger, 4d. over. Best Fine Coach Brads, 2½d. more than Fine Battens.

Glaziers' Sprigs ..... 14 oz., 10d.

	1½	2	2½	3	4	5	7	9	12	14	16	20	Ibs.
Clout .....	1/1½	1/3	1/4½	1/5½	1/8½	1/11½	2/6½	2/11	3/8	4/2	4/8	5/6	

Best Clout as Fine. Round-head Clout as Fine.

**Best and Fine Flemish, Fine Clout, Pail and Trunk.**

5oz. and less	6oz.	8oz.	10oz.	12oz.	14oz.	1lb.	1½lb.	2lb.	2½lb.	3lb.	4lb.	5lb.	7lb.
0/11½	1/0	1/0½	1/0½	1/1½	1/2	1/2½	1/3½	1/6½	1/8½	1/10	2/1	2/4	2/10

Round-head Pail, 3d. over. Broad Coopers', 2d. more to a 3 lb., and larger, 3d. more.

**Coopers' Rivets.**

16oz. and less	1½	1½	2	3	4	5	6	7	8	10	12lb.	Larger.
0/11½	1/0	1/1	1/2	1/5	1/7½	1/10	2/0½	2/3	2/5½	2/10½	3/3	29/0

Patten, 2d. more. Best Iron, ½d. per lb. extra.

**Clasp and Round Hobs.**

14oz.	16oz.	1½	1½	2	2½	3	4	5	6	7	8	9	10	12lb.
0/11	/11½	1/0½	1/0½	1/2½	1/4	1/5½	1/8½	1/11	2/2	2/4½	2/7½	2/10½	3/1½	3/7½

Clinkers, 3d. more per M. Fine Bell Hobs, 1s. more.

**Fine Hobs, Clasp, Round, and Narrow Top.**

14oz.	1	1½	1½	2	2½	3	4	5	6	7	8	9	10	12lb.
1/3	1/3½	1/4	1/5	1/6½	1/8	1/10	2/1	2/4	2/8	2/11	3/2	3/5	3/8	4/2

Fine Clinkers, 3d. more.

	1½	1½	2	2½	3	Ib.
Tip Nails.....	1/6	1/7	1/8½	1/10	2/0	

Countersunk, and Countersunk Clout Tips, 3d. per M more.



Des-  
cender.

No.

Best Rose, Sample and Home Made.

7	8	9	10	12	14	16	18	20	22	24	28	32	36	40	40	40	lb.
2/8	2/11	3/1½	3/4½	3/9½	4/2½	4/8	5/1	5/6	6/0	6/6	7/4	8/4	9/4	10/3	27/0	28/0	in.

Fine Rose.

2½	3	3½	4	5	6	7	8	10	12	13	14	16	18	20	24	28	30	36	lbs.
1/7	1/8½	1/10	1/11½	2/2	2/6	2/8½	2/11½	3/4½	3/9½	4/0	4/3	4/8	5/1	5/7	6/6	7/6	7/11	9/4	

Tenter Hooks.

1	1½	1½	2	2½	3	4	5	6	7	9	10	12	14	16	18	20	24	28	lbs.
1/7	1/8	1/9	1/10½	2/0	2/2	2/6½	2/9	3/0½	3/4	3/11½	4/2	4/10	5/6	6/0	6/7	7/8	8/3	9/2	

Round Bill'd, 4d.; Tilling, 6d. per M more.

Mop Nails, 43/0; Fine, 45/0. Knee Nails, same.

Rose Clench.

5	6	8	9	10	11	12	14	17	20	24	28	32	40	lbs.
2/3	2/6	2/11	3/3	3/5½	3/8	3/11	4/3	4/10½	5/7	6/7	7/8	8/9	10/10	
				5	6	8	10	12	14	17	20	23	32	lbs.

Slender Clench.....

2/6	2/8	3/1	3/6½	4/0	4/5	5/1	5/10	6/7	9/10	
-----	-----	-----	------	-----	-----	-----	------	-----	------	--

Sample Clench, the same.

1 lb. 6 oz. and less

2	3	4	lbs.
---	---	---	------

Wherry Clench.....

1/6	1/7	1/11	2/2	
-----	-----	------	-----	--

Fine Sample Clench, 4d. more.

Roves.

3 and less	4	6	8	10	12	14	20	24	28	30	32	36	lbs.
3/0	3/4	4/1	5/0	6/0	7/0	8/0	11/0	13/0	15/0	16/0	17/6	19/6	

Larger, 6d. per lb. Flat Roves to 10 lb., 4d.; larger, 6d. per M more.

5	6	7	8	10	lbs.	14	16	lbs.
---	---	---	---	----	------	----	----	------

Fine Rising....

2/11½	3/1½	3/3½	3/7½	4/4½		6	8	10	12	lbs.
-------	------	------	------	------	--	---	---	----	----	------

Rose Rising.....

6/2	6/7	
-----	-----	--

6

8	10	12	lbs.
---	----	----	------

Timber or Rising .....

2/10½	3/6½	4/2½	4/7	
-------	------	------	-----	--

9

12	16	20	24	28 lbs.	Larger	8	13 oz.	1½ lb.
----	----	----	----	---------	--------	---	--------	--------

Dog Nails....

3/4	4/2	5/0	6/0	7/0	8/0	31/6	
-----	-----	-----	-----	-----	-----	------	--

Fine, to 16 lbs., 6d.; Larger, 8d. more.

Round Heads

1/11½	1/0½	1/2	
-------	------	-----	--

4

5	6	7	8 lbs.	14	16	22	28	30 lbs.
---	---	---	--------	----	----	----	----	---------

Scupper .....

1/11½	2/2	2/4½	2/7	2/9½		6/10	6/4	7/6	9/2	9/7
-------	-----	------	-----	------	--	------	-----	-----	-----	-----

Fine, 4d. more. Fine Bellows, 8d. more.

10

12	14	16	18	20	lbs.
----	----	----	----	----	------

Hurdle .....

3/7	4/0	4/5	4/10	5/3	5/8	
-----	-----	-----	------	-----	-----	--

Fine Hurdle, Kent Hurdle, and Fine Tray.

7	8	9	10	12	14	16	18	20	22	24	lbs.
3/2	3/5	3/8	3/11	4/3	4/9	5/3	5/8	6/2	6/7	7/3	
						2	2½	2½	3	3½	in.

Tray Nails and Gate .....

40/0	38/0	36/0	33/6	32/0	
------	------	------	------	------	--

2

2½	3 in.		2	2½	2½	3 in.
----	-------	--	---	----	----	-------

Essex Hurdle ....

42/0	38/0	37/0		45/0	42/6	40/0	38/0
------	------	------	--	------	------	------	------

45

55	75 lbs.		Vent Nails ....	7½d. per lb.
----	---------	--	-----------------	--------------

38/0

37/0	36/0	
------	------	--

9 W.G.

8 W.G.	7 W.G.	6 W.G.	5 and larger.
--------	--------	--------	---------------

Best C'sk Coag. Rivets.....

80/0	65/0	55/0	49/0	43/0
------	------	------	------	------

Tinning, 2d. per lb., net.

Coil Chain. Twisted Backbands. Cart Traces. Plough Traces.

Best Derby Horse Nails. (From the Derby Prices.)

Best Countersunk Town Clout.

3	4	5	6	7	9	10	12	16	20	22	24	2½ in.	3 in.	and larger.
2/9	2/11	3/1	3/5	3/9	4/4	4/9	5/2	6/4	7/6	8/2	8/9	40/6	39/6	

Board Nails, the same.

Discount,

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## PATENT WROUGHT NAILS.

Strong Rose Nails. (Flat Points.)		Best Rose or Coopers. (Sharp Points.)		Fine Glasp.—(Sharp Points.)	
1½ in., 6 lbs. per M.	2/0½ per M.	1½ in., 7 lbs. per M.	2/4 per M.	1½ in., 4 lbs. per M.	2/1 per M.
1½ " 7 "	2/3 "	1½ " 8 "	2/7 "	1½ " 5 "	2/4 "
1½ " 8 "	2/5½ "	2 " 10 "	3/0 "	2 " 7 "	2/10 "
2 " 10 "	2/10½ "	2½ " 12 "	3/5 "	2½ " 8 "	3/0½ "
2½ " 12 "	3/3½ "	2½ " 17 "	4/5½ "	2½ " 10 "	3/5½ "
2½ " 17 "	4/3½ "	2½ " 20 "	5/1 "	3 " 14 "	4/4½ "
2½ " 20 "	4/11 "	3 " 23 "	5/11 "	Present Discounts per Cent. off per Cwt.	
3 " 23 "	5/8 "	Fine Rose.—(Flat Points.)		Do. per Cent. off Nails per M.	
3 " 25 "	6/1 "	1 in., 2½ lbs. per M.	1/7½ per M.	Best Canada. (Sharp Points.)	
3½ " heavy.....	23/6 per Cwt.	1½ " 3½ "	1/10 "	1½ in., 4 lbs. per M.	2/0 per M.
4 " " .....	23/0 "	1½ " 4 "	1/11½ "	1½ " 5 "	2/2½ "
4½ " " .....	22/6 "	1½ " 5 "	2/2 "	2 " 7 "	2/9 "
5 " " .....	22/0 "	2 " 7 "	2/8½ "	2½ " 8 "	3/0½ "
6 " " .....	22/0 "	2½ " 8 "	2/11½ "	2½ " 10 "	3/3 "
Pound Nails.		2½ " 10 "	3/1 "	2½ " 10 "	3/5½ "
6 dy., 2½ inch..	28/6 per Cwt.	2½ " 10 "	3/4½ "	2½ " 12½ "	4/0½ "
8 dy., 2½ " ..	27/0 "	2½ " 12½ "	3/11 "	3 " 14 "	4/4½ "
10 dy., 3½ " ..	24/0 "	2½ " 14 "	4/3 "	3 " 17 "	5/0 "
20 dy., 4 " ..	23/0 "	3 " 14 "	4/3 "		
Box Nails.		3 " 17 "	4/10 "		
1½ inch, 10 lbs. per M.	3/0 per M.	3½ " 32 "	7/6 "		
		4 " 42 "	24/0 per Cwt.		

## PRICES OF CUT NAILS.

R.B. Tacks, per M.			Glaziers' Brads.			Extra Strong Joiners'.			Cabinet Makers' Fine.		
Patent Cut Tacks.			Length.		¢ M.	Length.		¢ M.	Length.		¢ M.
Best Best Iron.			1 inch .....		0/6	2½ inch .....		2/6	1 inch .....		0/2½
Fine Flemish Tacks.			1 " .....		0/5	2½ " .....		2/0	1 " .....		0/2½
Length.	Weight.	¢ M.	1 " .....		0/4	2 " .....		1/9	1 " .....		0/2½
1 inch ..	3 oz. ..	0/6	1 " .....		0/3½	1½ " .....		1/2	1 " .....		0/3
1 " ..	5 " ..	0/6½	1 " .....		0/2½	1½ " .....		0/10½	1 " .....		0/3½
1 " ..	8 " ..	0/7	1 " .....		0/2	1 " .....		0/8½	1 " .....		0/4
1 " ..	10 " ..	0/8	1 " .....		0/2½	1 " .....		0/6½	1 " .....		0/5
1 " ..	12 " ..	0/9	Joiners' Fine Brads.			Joiners' Strong Brads.			Broom and Brush.		
1 " ..	14 " ..	0/10	1 inch .....		0/2½	1 inch .....		0/5½	1 inch .....		0/2½
1 " ..	16 " ..	0/11	1 " .....		0/2½	1½ " .....		0/6½	1½ " .....		0/7½
Tinned, 1½d. per lb. extra, net.			1 " .....		0/2½	1½ " .....		0/7½	1½ " .....		0/9
Joiners', per M.			1 " .....		0/3	1½ " .....		0/8½	1½ " .....		0/10½
Strong Flemish Tacks.			1 " .....		0/3½	1½ " .....		0/9½	Improved Large Head Strong Tacks.		
1 inch ..	4 oz. ..	0/6½	1 " .....		0/4	1½ " .....		0/10½	Length.	Weight.	¢ M.
1 " ..	6 " ..	0/7	1 " .....		0/5	1½ " .....		1/0	1 inch ..	9 oz. ..	0/8
1 " ..	8 " ..	0/7	1 " .....		0/6	1½ " .....		1/1½	1 " ..	10 " ..	0/9½
1 " ..	10 " ..	0/8	1 " .....		0/7	1½ " .....		1/3½	1 " ..	12 " ..	0/10
1 " ..	12 " ..	0/9	1 " .....		0/8	1½ " .....		1/9	1 " ..	14 " ..	0/11
1 " ..	14 " ..	0/10	1 " .....		0/9	1½ " .....		2/3	1 " ..	16 " ..	1/0
1 " ..	16 " ..	0/11	1 " .....		0/10	1½ " .....		2/9	1 " ..	1½ lbs.	1/1½
1 " ..	18 " ..	1/0	1 " .....		0/11	1½ " .....		3/3	1 " ..	1 " ..	1/3
Tinned, 1½d. per lb. extra, net.			1 " .....		1/0	Chair Brads.			1 " ..	1 " ..	1/5
			2 " ..		1/2	1 inch .....		0/5	Tinned, 1½d. per lb. extra, net.		
			2½ " ..		1/7	1½ " .....		0/5½			
			2½ " ..		2/0	1 " ..		0/6			
			3 " ..		2/6						
			3 " ..		3/0						

## THE ILLUSTRATED SHEFFIELD LIST.

Dis-  
count.

No.

## FINE AND STRONG CUT, CLASP, ROSE, AND CLOUT NAILS.

$\frac{1}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	5	6	7	8	inches.	per cwt.
Flooring Brads, Sheet, 2 ins. and above,											per cwt.; Nails, Galvanized,										per cwt. extra.
Lath Nails ..											per cwt.										per cwt.
Copper Slate Nails,											per lb.; Zinc Slate Nails, 1, $1\frac{1}{4}$ in.,										per cwt.
Joiners' Brads .....											per lb.; above,										per cwt.
Best American Patent Clout Nails .....											per cwt.										per cwt.
Best Coopers' Clout and Box Nails .....											per cwt.										per cwt.
Glaziers' Brads ..											per cwt.										per cwt.
Strong Cut Tacks .....											per cwt.										per cwt.
Fine Flemish Tacks .....											per cwt.										per cwt.
Sacking Nails .....											per cwt.										per cwt.
Tip Nails .....											per cwt.										per cwt.
Shoe Bills—French, Strong,											per cwt.										per cwt.
Ditto —Military,											per cwt.										per cwt.
Copper Bills .....											per lb.										per lb.
Zinc Bills .....											per lb.										per lb.
Round Hobs .....											per cwt.										per cwt.
Welsh Hobs .....											per cwt.										per cwt.
Patten and Clog Nails .....											per cwt.										per cwt.
Copper Tacks .....											per lb.										per lb.
Zinc Tacks .....											per lb.										per lb.
Brass Tacks .....											per lb.										per lb.
Iron Lasting Tacks, BB..											per cwt.										per cwt.
Clog Pins, Japanned .....											per lb.										per lb.
Ditto, Tinned .....											per lb.										per lb.

Every description of Cut Nails made to pattern.

## BRASS HEAD NAILS.

$\frac{1}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	5	6	inches.
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{10}$	$\frac{2}{4}$	$\frac{2}{6}$	$\frac{3}{}$	$\frac{3}{6}$	$\frac{4}{}$	$\frac{4}{9}$	$\frac{5}{6}$	$\frac{6}{6}$	$\frac{6}{9}$	$\frac{7}{6}$	$\frac{8}{}$	$\frac{9}{}$	$\frac{10}{}$	$\frac{12}{6}$	per gross.

## BRASS HOOKS, TO SCREW OR DRIVE.

$\frac{1}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	inches.
$4\frac{1}{2}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$4\frac{1}{2}$	per gross.

Cup Hooks, same prices.—Discount.

## CONSUMER HOOKS.

1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	inches.
$9\frac{1}{2}$	$9\frac{1}{4}$	$9\frac{1}{2}$	$9\frac{3}{4}$	$10\frac{1}{2}$	$10\frac{1}{4}$	$10\frac{1}{2}$	$10\frac{3}{4}$	$11\frac{1}{2}$	per gross.

## BRASS HEAD LOCK SCREWS.

1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	inches.
$3\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	$5\frac{1}{2}$	per gross.

## BRASS PLATED COUNTERSUNK HEAD NAILS.

$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	4	$4\frac{1}{4}$	inches.
$1\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	per gross.

## WROUGHT COPPER BOAT NAILS.

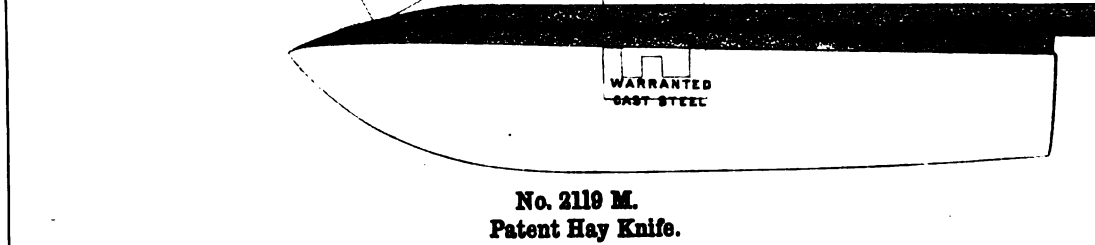
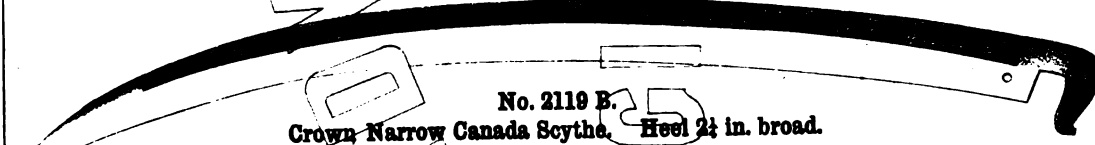
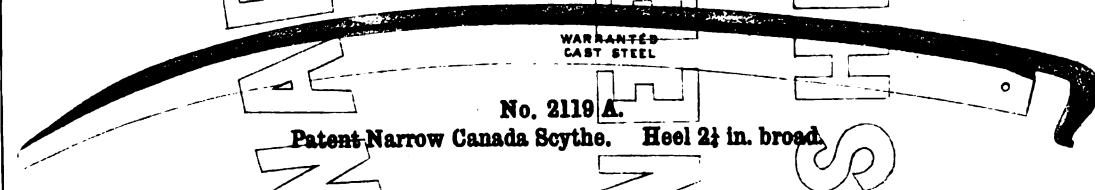
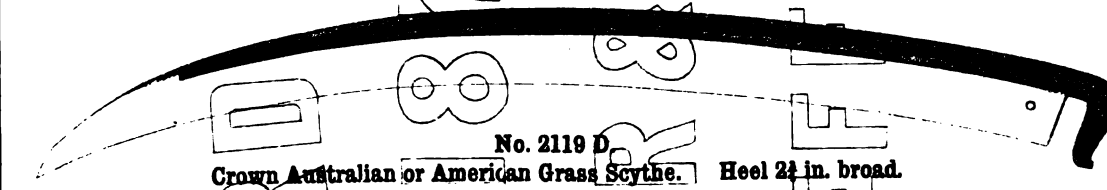
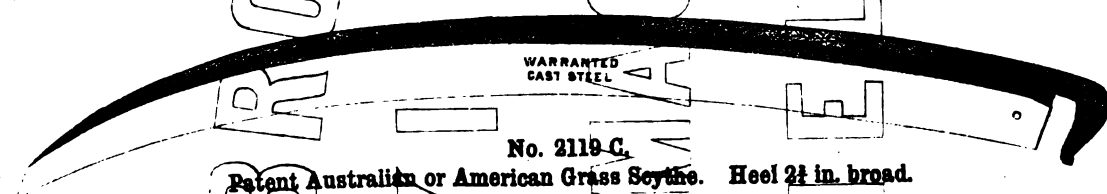
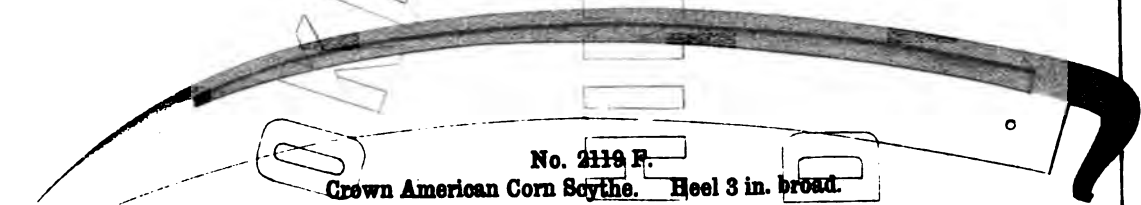
$\frac{1}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	inches.
Copper Roves,											per lb., net.			
Copper Rivets and Washers,											per lb., net.			

## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	
<b>PATENT SCYTHES, for England, Ireland, Scotland, Wales, and America.</b>		
		30   32   34   36   38   40   42   44   46   48   50   52   54   56   58   60   62   64   ins.
2117	Patent Scythes ..	34/0 34/0 34/0 35/0 36/0 37/6 39/0 40/6 42/0 43/6 45/0 46/6 48/0 49/6 51/0 52/6 54/0 57/0 dos.
2118	Crown ditto ..	35/6 35/6 35/6 36/6 37/6 39/0 40/6 42/0 43/6 45/6 49/0 52/6 55/6 58/6 62/6 65/0 68/0 72/0 "
2119	Ex. Warranted ..	40/0 40/0 40/0 41/0 42/0 43/0 44/0 45/6 47/6 50/0 52/6 55/0 58/0 61/0 64/0 67/0 70/0 74/0 "
<b>PATENT SCYTHES, suitable for Canada or the States of America.</b>		
		26   28   30   32   34   36   38   40   42   44   ins.
2119A	Patent Canada Scythes, 2½ inch Broad .....	24/6 25/0 25/9 26/6 27/6 28/6 29/6 30/6 32/0 34/0 dos.
2119B	Crown ditto ditto .....	25/9 26/6 27/6 28/6 29/6 30/6 32/0 33/6 35/0 38/0 "
		36   38   40   42   44   46   48   50   52   54   ins.
2119C	Patent American or Australian Grass Scythes ..	33/6 35/0 36/0 37/6 39/0 40/6 42/0 43/6 45/0 46/6 dos.
2119D	Crown ditto ditto ..	35/0 36/0 37/6 39/0 40/6 42/0 43/6 45/0 46/6 48/0 "
2119E	Patent American Corn Scythes, 3 inches Broad ..	35/0 36/0 37/6 39/0 40/6 42/0 43/6 45/0 46/6 48/0 "
2119F	Crown ditto ditto ..	36/0 37/6 39/0 40/6 42/0 44/0 46/0 50/0 54/0 58/0 "
		36   38   40   42   44   46   inches.
2119G	Patent Broad Heel German Scythes, 3½ inch Broad ..	35/0 36/0 37/6 39/0 40/6 42/0 per doz.
		36   38   40   42   44   inches.
2119H	Patent Schleswig Scythes, 3½ inch Broad .....	35/0 36/0 37/6 39/0 40/6 per dozen.
		17   20   24   28   30   33   36   inches.
2119I	Crown Scythes, for Norway and Sweden ..	23/6 23/6 23/6 25/6 26/3 27/3 28/9 per dozen.
		24   26   28   30   inches.
2119J	Crown Bramble Scythes, Heel 2½ inch Broad .....	36/0 37/6 39/0 40/6 per dozen.
2119K	Patent Bramble Scythes, ditto .....	36/0 37/6 39/0 40/6 "
		16   18   20   22   24   26   28   30   inches.
2119L	Crown Hay Knives .....	37/0 38/6 41/6 47/6 68/0 82/0 100/ 130/ per dozen.
2119M	Patent Hay Knives .....	36/0 37/0 38/6 41/6 51/0 65/0 82/ 100/ "
Nuts and Screws, Cross Handles, ¾ per dozen extra; Broad Pointed Trussing Knives, 20/ per dozen extra.		
Patent and Crown Thatchers' Knives, without Handles, 45/ per dozen; if Handled, 50/ per dozen.		
		22   24   26   28   30   inches.
1 to 6	Patent and Crown Chaff Knives .....	41/6 43/6 45/6 52/6 62/0 per dozen.
		22   23   24   25   26   27   28   30   ins.
	Best Cast Steel Patent Straw Knife Blades, 16th Gauge ..	23/0 24/3 25/6 26/6 27/9 30/0 32/6 35/6 dos.
	Ditto ditto Second quality, ditto ..	22/3 22/9 23/0 24/3 25/6 26/6 27/9 31/0 "
		14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30
	Cast Steel Machine Knives, for Cutting Hay or Straw ..	33/6 35/ 36/ 37/6 39/ 42/ 46/6 51/ 55/6 58/ 65/ 72/ 76/ 80/ 85/ 92/ 100/ per doz.
<b>BEST SCYTHE STRICKLES.</b>		
		10   11   12   13   14   inches on the Blade.
	Best Flat Emery Strickles .....	3/2 3/4 3/6 3/8 3/10 per dozen.
	Best Square ditto .....	3/4 3/6 3/8 3/10 4/ "
		7   8   9   inches on the Blade.
	Reaping Hook Strickles, Flat .....	3/ 3/ 3/ per dozen.



# SCYTHES AND HAY KNIVES.



Dis-  
count.

No.

GALVANIZED FITTINGS, FOR SHEETS, TILES, &c.

GALVANIZED MUSHROOM HEAD BOLTS AND NUTS.

$\frac{1}{2}$ by $\frac{1}{2}$	$\frac{1}{2}$ by $\frac{3}{4}$	1 by $\frac{1}{2}$	$\frac{1}{2}$ by 5-16	1 by 5-16	inch.
5/6	6/0	7/0	8/0	9/0	per gross.

Washers, 70/0 per cwt.

GALVANIZED CONE-HEAD RIVETS.

$\frac{1}{2}$ by $\frac{1}{2}$	$\frac{1}{2}$ by $\frac{3}{4}$	$\frac{1}{2}$ by 5-16	9-16 by 5-16	$\frac{1}{2}$ by $\frac{3}{4}$	inch.
60/0	60/0	66/0	66/0	52/0	per cwt.

GALVANIZED WOOD SCREWS, CONE HEADS.

		12	13	14	16	
2 inches long	.....	86/0	84/0	82/0	80/0	per cwt.
2 $\frac{1}{2}$ "	.....	85/0	83/0	81/0	79/0	"
2 $\frac{3}{4}$ "	.....	84/0	82/0	80/0	78/0	"
3 "	.....	..	..	..	..	"

GALVANIZED COACH SCREWS.

		$\frac{1}{2}$	5-16	$\frac{3}{4}$	inch.
2 inches long	.....	80/0	82/0	84/0	per cwt.
2 $\frac{1}{2}$ "	.....	79/0	80/0	82/0	"
2 $\frac{3}{4}$ "	.....	78/0	89/0	80/0	"

If the above are required wrapped in grosses, the price will be 2/3 per 112 lbs. extra, net.

GALVANIZED IRON RIDGING.

15	18	20	inch girth.
6d.	7d.	8d.	per foot.

PLAIN AND CORRUGATED SHEET ZINC, always at Lowest Market Prices.

		2	2 $\frac{1}{2}$	3	4	inch.
Galvanized Countersunk Clout Nails	.....	76/0	68/0	66/0	64/0	per cwt.

		$\frac{1}{2}$	1	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	inch.
Galvanized Malleable Sacking Nails	.....	64/0	66/0	64/0	64/0	60/0	per cwt.

		5	6	7	8	9	inch.
Galvanized Ship and Boat Spikes	.....	60/0	49/0	48/0	47/0	47/0	per cwt.

		4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6	7	8	inch.
Galvanized Deck Head Spikes	.....	44/0	42/0	41/0	40/0	39/0	38/0	38/0	per cwt.

		1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	inch.
Galvanized Cone-Head Nails	.....	64/0	60/0	58/0	56/0	54/0	per cwt.

		1	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	inch.
Galvanized Clout or Slate Nails	.....	72/0	72/0	66/0	64/0	60/0	per cwt.

ZINC NAILS, FOR SLATING. Special quotations for specifications forwarded.

Iron Keg	.....to hold 112 lbs.	2/9 each, Net.
Galvanized Iron Keg	" "	4/0 "
Wood Keg	" "	3/6 "
Felt-lined Boxes	" "	6/9 "

GALVANIZED HOOPS.

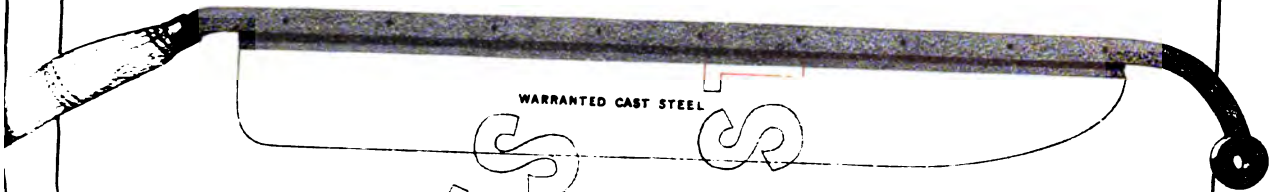
$\frac{1}{2}$ by 20	$\frac{1}{2}$ by 19	1 by 18	1 $\frac{1}{2}$ by 17	1 $\frac{1}{2}$ to 1 $\frac{3}{4}$ by 16	1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ by 15	2 $\frac{1}{2}$ to 3 by 14	
48/0	46/0	44/0	42/0	40/0	36/0	34/0	per cwt.

GALVANIZED BARS, Rounds, Squares, Flats.

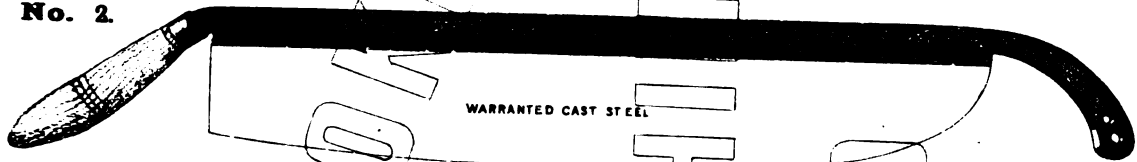
# STRAW KNIVES

126—(Continued.)

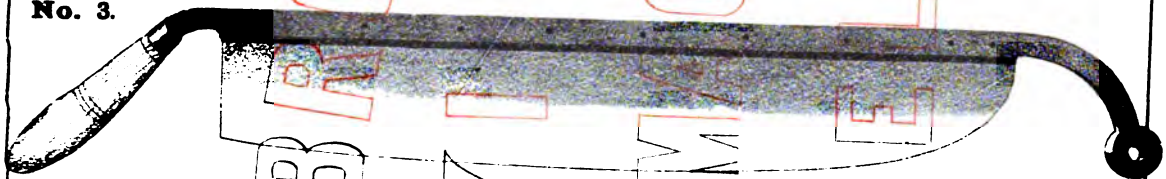
No. 1.



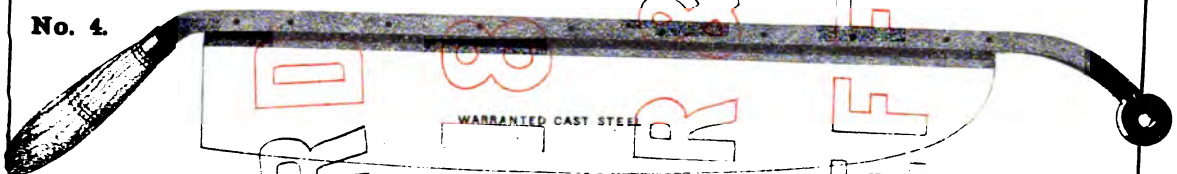
No. 2.



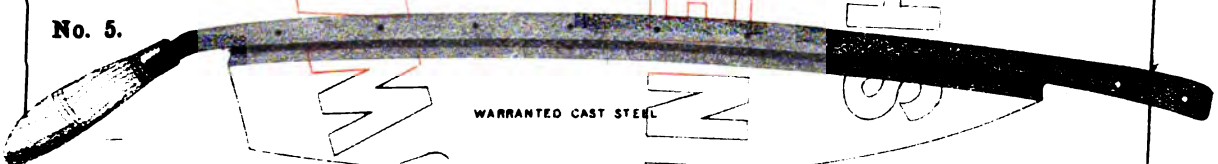
No. 3.



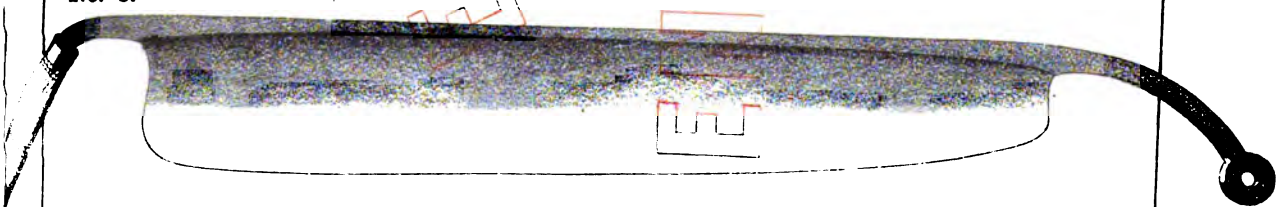
No. 4.



No. 5.

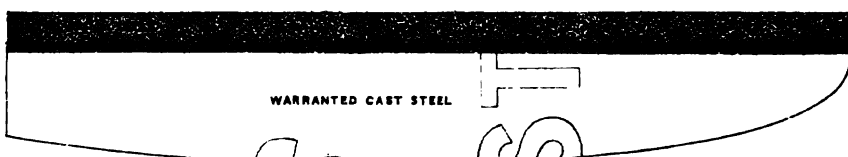


No. 6.

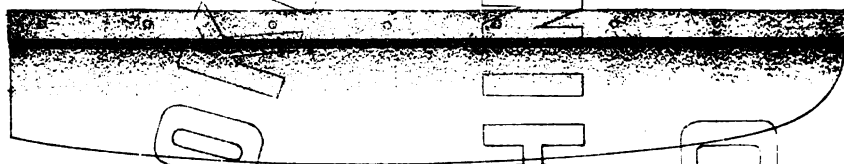


## STRAW KNIFE BLADES.

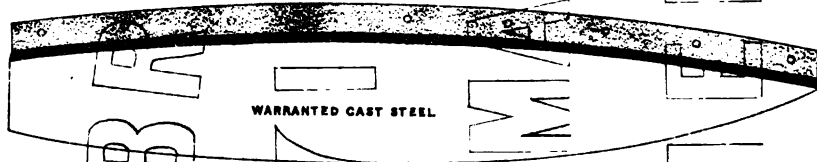
No. 7.



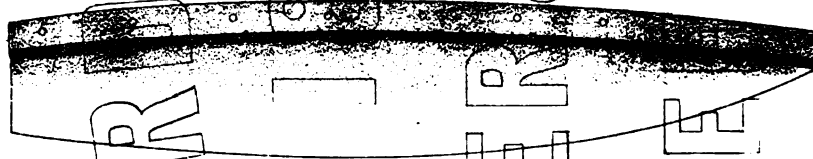
No. 8.



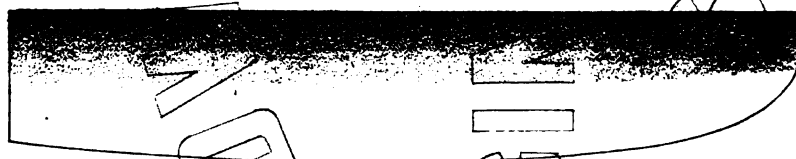
No. 9.



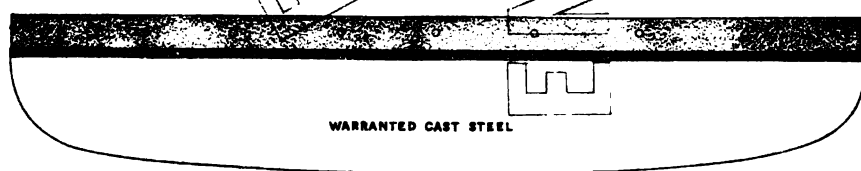
No. 10.



No. 11.



No. 12.







## THE ILLUSTRATED SHEFFIELD LIST.

Dis- count.	No.	PRICES OF SICKLES AND REAPING HOOKS.										Dis- count.	No.	Cardigan.	Welsh.	Andrews'.	Ironside's.	Seroggs'.
		Prices for Kent, Sussex, Essex, Cambridge, Lincoln, Nottingham, York, Northampton, Bucks, and Oxford.												30	32	34		ins.
		No.	1	2	3	4								25/9	26/9	27/0	25/9	16/3 dz.
			20	22½	25	27½	ins.											
	2181	Common Sickles	7/3	9/0	10/9	12/6	dz.											
			21	23½	26	28½	ins.											
	2182	Cast Steel ditto	8/6	10/3	12/0	13/9	dz.											
		Sandwiches, Tomlins', and Powell Sickles, 1/3 per doz. more than these prices.																
		Elastic Sickles, 9d. per dozen extra.																
	2183	Stortford Skls., Boys', 11/9; Men's, 13/6; 25 in.																
		G. B. Sickles, same price as Stortfords.																
		Prices for Ireland, Derby, Stafford, Warwick, Gloucester, North Wales, Salop, Chester, and Lancashire.																
	2184	Common Sickles—																
		No.	2	3	4	5	6	7										
			20	22½	25	27½	30	32½	ins.									
			7/3	9/0	10/9	12/6	14/3	16/0	dz.									
	2185	Cast Steel Sickles—																
			21	23½	26	28½	31	33½	ins.									
			8/6	10/3	12/0	13/9	16/0	17/3	dz.									
	2186	Kendal Sickles—																
			17	19	21	23½	26	28½	ins.									
			6/9	7/3	8/6	10/3	12/6	14/3	dz.									
		Patent Sickles same length, 6d. doz. extra.																
		No.	2	3	4	5	6											
			19	21	23	25	27	ins.										
	2187	Best Patent Im-																
		proved Hook..	13/0	14/3	15/6	16/9	18/0	dz.										
	2188	Best Sharping ..	10/3	11/6	12/9	14/0	15/9	..										
		General prices of Hooks for the different Counties, where suitable.																
	2189	Norfolk Hooks—																
		No.	00	0	1	2	3	4										
			19	20½	22	23½	25	26½	ins.									
			10/3	11/6	12/6	13/9	15/0	16/3	dz.									
	2190	Lincoln Hooks—																
			17½	19	20½	22	23½	25	ins.									
			11/6	12/6	13/9	15/0	16/3	17/6	dz.									
		Boys' Garret Sickles, 12/0; Men's, 13/9 doz.																
			22	24	26	28	ins.											
		Boys'. Small. Middle. Large.																
	2191	Bagging Hooks	13/0	15/0	17/6	19/6	dz.											
			23½	26	28½	31	ins.											
	2192	Sussex Hooks	13/0	15/0	17/0	19/0	dz.											
	2193	Yorkshire, Cornish, Hants, & Surrey Hooks:—																
		Sml. Boys'. Boys'. Women's. Men's. Lrg Men's.																
			19	21	23	25	27	ins.										
			10/3	11/6	12/6	14/3	16/3	dz.										
		3d. doz. for Cranking, and 3d. doz. extra for Crutched Handles. Sickles Hooks, 6d. doz. more than Sussex Hooks.																
	2194	Iale of Wight, Jersey, & Guernsey Hooks:—																
		No.	0	1	2	3	4											
			12½	15½	17½	19½	21½	ins.										
			8/0	9/0	10/3	11/6	12/9	dozen.										
	2195	Socketted Pea Hooks, Small, 21/6; Large, 23/6																
			27	29			29	ins.										
	2196	Lloyd's Hooks... 17/6; Wilkins' 21/6; dz.																

				</														

No.	Cardigan.	Welsh.	Andrews'.	Ironside's.	Seroggs'.
	30	32	34		ins.
	25/9	26/9	27/0	25/9	16/3 dz.

2197 Bean Hooks, same as Bagging and Andrew's Hooks, according to Length.

2198 Best Patent Hooks, 1/3 per doz. more than Common Hooks.

Prices of Sickles and Hooks for Scotland, the North of England, and the Isle of Man:—

No.	0	1	2	3	
	18	20	22	24	ins.
2199	Common Sickles	6/3	6/9	7/3	9/0 dz.
2200	Glazed ditto	6/9	6/9	no larger	made

No.	0	1	2	3	4	
	19	21	23½	26	28½	ins.
2201	C.S. Ribbd. Skls.	7/3	8/6	10/3	12/0	13/9 dz.

If made broad, 1 inch shorter.

2202	Best Kendal Skls.	7/3	8/6	10/3	12/6	14/3 dz.
		19	21	23	25	27 ins.

2203	Best Shrrpg. Hks.	10/3	11/6	12/6	13/9	15/0 dz.
------	-------------------	------	------	------	------	----------

2204	Best Sickle do.	10/9	12/0	13/3	14/3	16/0 ..
------	-----------------	------	------	------	------	---------

				24	26	28 ins.
--	--	--	--	----	----	---------

2205	Best Bean Hooks			13/9	15/0	16/3 dz.
------	-----------------	--	--	------	------	----------

2206	Best Patent ..	13/0	14/3	15/6	16/9	18/0 ..
------	----------------	------	------	------	------	---------

Prices of Sickles & Hooks, for Foreign Parts.

PRICES FOR POLAND.

No.	1	2	3	
	19	21	23	ins.
2207	Best Poland Sickles .....	6/4	7/6	8/9 dz.

Plain Sickles, 3d. per doz. less.

PRICES FOR RUSSIA.

No.	1	2	3	
	16	18	20	ins.
2208	Plain Russia Sickles .....	5/9	6/0	6/4 dz.
2209	Ribbed ditto .....	7/0	7/3	7/6 ..
2210	Best Bright Russia Sickles ..	8/4	8/8	9/0 ..

PRICES FOR CANADA, SOUTH AMERICA, UNITED STATES, &c.

No.	2	3	4	5	6	
	20	23½	25	27½	30	ins.

2211	Common Sickles, for Canada, South Amer. & Philadel.	5/9	7/3	8/9	10/3	12/0 dz.
		21	23½	26	28½	31 ins.

2212	C.S. Ribbed ditto ..	7/0	8/3	9/9	11/6	13/3 dz.
------	----------------------	-----	-----	-----	------	----------

		19	21	23	25	27 ins.
--	--	----	----	----	----	---------

2213	Best Shrrpg. Hks., for Canada and South America	9/9	11/12	13/3	14/6 dz.
------	---	-----	-------	------	----------

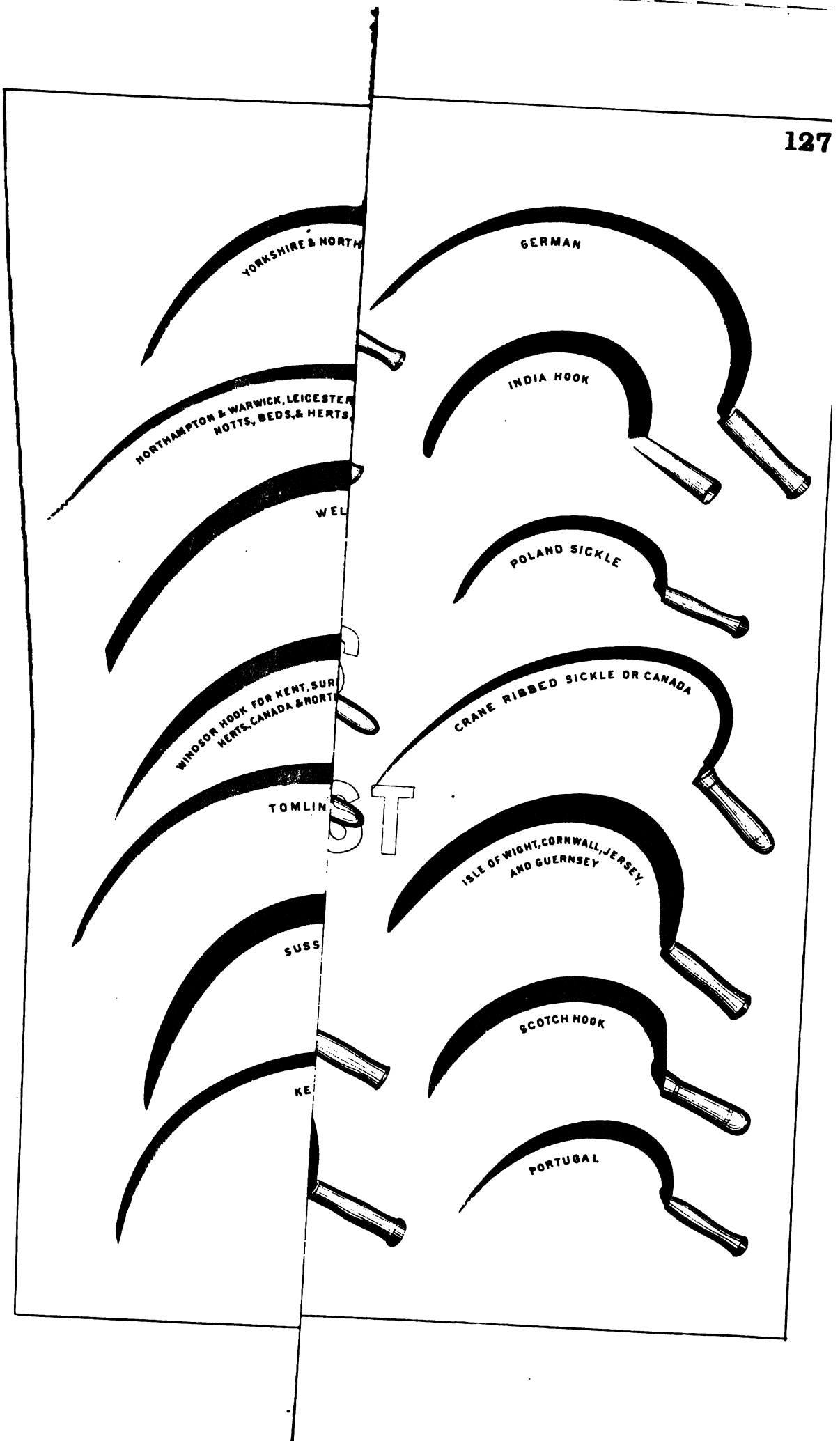
Yarrick Sickles, 1/0 per doz. more than Philadelphia Sickles.

				17	18½	20 ins.
--	--	--	--	----	-----	---------

2214	Socket Hooks .....	14/6	16/0	17/9 dz.
------	--------------------	------	------	----------

2215	Hollanders', 18 inches, 5/9 per dozen.					
------	--	--	--	--	--	--

2216	Monkey Knives, 12 inches, 6/4 per dozen.					
------	--	--	--	--	--	--



K		P—Continued.	
	PAGE.		PAGE.
Kent Hammers .. .. .	69	Pincers.—Lancashire .. .. .	73
Keying Hammers .. .. .	66	" Upholsterers' .. .. .	76
Knives.—Cheese .. .. .	94	Pinking Irons and Punches .. .. .	76
" Curriers' and Tanners' .. .. .	94	Pin Mauls .. .. .	98
" Grass Edging .. .. .	79 <i>contd.</i>	Pipe Cutter .. .. .	12
" Machine .. .. .	126	Pistons (Brookes' Patent Metallic) .. .. .	50A
" Mincing .. .. .	94	Planes .. .. .	111 to 112 <i>contd.</i>
" Circular Paper .. .. .	102	Plane and Cut Irons .. .. .	67
" Saddlers' and Skinners' .. .. .	94	Planing Machines .. .. .	34
" Straw and Chaff .. .. .	126, 126 <i>contd.</i>	" for Wood .. .. .	16
" Striking .. .. .	87, 110 <i>contd.</i>	Plantation Hoes .. .. .	80, 80 <i>contd.</i>
L		Plate Bending Machines .. .. .	12
Ladles.—Cooks' Tinned, Lead, and Pitch .. .. .	98	Platers' Shears .. .. .	86
Lapwelded Boiler Tubes .. .. .	121	Platelayers' Tools .. .. .	66, 66
Lancashire Pincers .. .. .	73	Pliers.—Bellhangers' .. .. .	67
" Tools .. .. .	67	" Flat and Round Nose .. .. .	67, 73
Lathes.—Hand, Slide, and Screw Cutting, &c. .. .. .	25, 26	" Railway Ticket .. .. .	67
Lathe Carriers .. .. .	6	" Sheep Ear .. .. .	76
Lawn Rakes .. .. .	79 <i>contd.</i>	" Tinmen's .. .. .	76
Lifting Jacks, Hydraulic and Traversing .. .. .	11, 98	Plough Bits .. .. .	89
Light Edge Tools .. .. .	86 to 91	Plough Plates, Stops, &c. .. .. .	110 <i>contd.</i>
Lightning Conductors.—Copper .. .. .	114	Plough Traces .. .. .	111
Locomotive Boiler Tubes .. .. .	121	Plumbers' Shave Hooks .. .. .	112
Locomotive Engine Springs .. .. .	53, 54	Portable Boiler Prover .. .. .	13
Lock Screws, Brass Heads .. .. .	125	Portable Forges .. .. .	61
Lubricators (Brookes' Patent) .. .. .	50A	" Hydraulic Pumps .. .. .	47
M		" Parallel Vices .. .. .	5, 12
Machine Knives .. .. .	126	" Steam Engines .. .. .	36
Mallets .. .. .	109 <i>contd.</i>	" Work Benches .. .. .	12
Manure Forks .. .. .	79	Presses.—Copying .. .. .	13
Marine Boiler Tubes .. .. .	121	" Fly .. .. .	13, 25
Marking Awls .. .. .	110 <i>contd.</i>	" Cotton, Hay, Wool, &c., Hydraulic .. .. .	44, 48
Marline Spikes .. .. .	98	Print Cutters' Chisels and Gouges .. .. .	87
Mast Shaves .. .. .	91	Pruning Chisels .. .. .	78
Mattocks .. .. .	66	" Saws .. .. .	78
Mill Picks .. .. .	64	" Scissors and Shears .. .. .	78
Mill Shafting .. .. .	121 <i>contd.</i>	Pulley Blocks .. .. .	11
Millwrights' Chisels and Gouges .. .. .	88	" Differential .. .. .	11
Mincing Knives .. .. .	94	Pumps, Centrifugal .. .. .	41
Miners' Picks .. .. .	66	" Feed .. .. .	40
Mining Tools .. .. .	121 <i>contd.</i>	Pumping Engines .. .. .	36, 39
Mortar Mill .. .. .	37	" Hydraulic .. .. .	46, 46, 47
Mortice Chisels .. .. .	89	Punches, Harness, Saddlers', and Shoe .. .. .	74
Mortice Gauges .. .. .	110	Punching Machines .. .. .	12, 13, 30
Morticing Machine .. .. .	23	Punching and Shearing Machines .. .. .	12, 29, 30
Moulding Irons .. .. .	88 <i>contd.</i>	R	
N		Rabbit Irons .. .. .	88 <i>contd.</i>
Nails.—Wrought, Patent, Cut, Brass Head, .. .. .	122, 123, 124, 125	Radial Drilling Machines .. .. .	32
Copper, &c. .. .. .	110	Railway Carriage Springs .. .. .	61
Nose and Shell Bits .. .. .	118, 118 <i>contd.</i>	" Iron Work .. .. .	121
Nuts and Bolts .. .. .	33	" Platelayers' Tools .. .. .	66, 66
Nut Shaping Machines .. .. .	33	" Ticket Pliers .. .. .	67
O		" Setting Press .. .. .	65
Overhead Travellers, for Engineers, &c. .. .. .	122, 130	" Wheel Turning Lathe .. .. .	26
P		Ratchet Braces .. .. .	5, 6
Parallel Bench Vices .. .. .	5, 12	Reaping Hooks and Sickles .. .. .	127
" Straight Edges .. .. .	4	Rebating Benches .. .. .	21
Parting Tools .. .. .	88 <i>contd.</i>	Rigging Screws .. .. .	98
Patent Saw Sets .. .. .	76	Rinders .. .. .	110
Permanent Way Cramps .. .. .	5	Rivets .. .. .	119, 122
" Gauge .. .. .	66	Rivetting Hammer Heads .. .. .	64, 68
Pick Axes.—Australian, Miners', Navvies', &c. .. .. .	66	Ropes, Wire .. .. .	114
Pillar Drilling Machines .. .. .	13, 25, 32	Row Locks .. .. .	99 <i>contd.</i>
Pincers.—Carpenters' and Tower .. .. .	73	Rudder Irons .. .. .	99 <i>contd.</i>
" Farriers' .. .. .	74	S	
" Gentlemen's .. .. .	76	Saddlers' Knives .. .. .	94
P		" Pincers .. .. .	75
Parallel Bench Vices .. .. .	5, 12	" Punches .. .. .	74
" Straight Edges .. .. .	4	Sail Prickers and Thimbles .. .. .	99, 99 <i>contd.</i>
Parting Tools .. .. .	88 <i>contd.</i>	Sash Cramps .. .. .	98
Patent Saw Sets .. .. .	76	" Mortice Chisels .. .. .	89
Permanent Way Cramps .. .. .	5		
" Gauge .. .. .	66		
Pick Axes.—Australian, Miners', Navvies', &c. .. .. .	66		
Pillar Drilling Machines .. .. .	13, 25, 32		
Pincers.—Carpenters' and Tower .. .. .	73		
" Farriers' .. .. .	74		
" Gentlemen's .. .. .	76		



## S—Continued.

	PAGE.
Saws .. .. .	100 to 102
Saw Bows .. .. .	100
" Buckles .. .. .	101
" Pads .. .. .	110
" Sharpening Machines .. .. .	27
" and Sheet Steel Gauge .. .. .	101
" Grinding Machines .. .. .	27
" Sets .. .. .	75
" Spindles and Frames .. .. .	25
" and Pedestals .. .. .	25
" Tables .. .. .	17, 18, 19, 25
Scissors.—Pruning and Vine .. .. .	78
Scotch Hand Shears .. .. .	85
" Iron Braces .. .. .	4, 108
Scrapers .. .. .	109
Screws.—Iron, Brass, and Copper .. .. .	120
Screw Bits .. .. .	93
" Boxes .. .. .	110 contd.
" Couplings .. .. .	66
" Jacks .. .. .	11, 98
" Keys, Clyburn's, &c. .. .. .	2
" Shackles .. .. .	98, 99
" Presses .. .. .	13, 25, 44, 48
" Stocks and Dies .. .. .	3
" Complete in Cases .. .. .	5
" Gas Tube .. .. .	3
" Plates .. .. .	3
" Tools .. .. .	3
Scythes .. .. .	79, 126, 128 contd.
Self-Acting Saw Benches .. .. .	17, 18, 19, 25
Shackles, Screw .. .. .	98, 99
Shafting, Mill .. .. .	37, 121 contd.
Shaping Machines .. .. .	33
Shark Hooks .. .. .	99 contd.
Shears.—Garden, Grass, and Pruning .. .. .	78
" Bookbinders' and Brushmakers' .. .. .	85
" Horse and Sheep .. .. .	113
" Tinmen's Hand and Stock .. .. .	85
Shearing Machines .. .. .	29, 31
Shearing and Punching Machines .. .. .	12, 29, 30
Sheep Ear Pliers .. .. .	75
Shingling Hatchets .. .. .	96
Ship Chain and Links .. .. .	11, 98
" Cramps .. .. .	5, 98
" Hanks .. .. .	99 contd.
" Scrapers .. .. .	98
" Slicers .. .. .	88 contd.
Shipping Tackle .. .. .	98 to 99 contd.
Shoe Nippers and Pincers .. .. .	76
" Punches .. .. .	74
" Punch Pliers .. .. .	76
Sickles and Reaping Hooks .. .. .	127
Silent Fans .. .. .	62, 63
Skates .. .. .	108
Sledge Hammers .. .. .	64
Sleeper Cutting Saw Bench .. .. .	18
Slide Pruning Shears .. .. .	78
" Rests .. .. .	26
" and Screw Cutting Lathes .. .. .	26
Slotting Machines .. .. .	35
Smiths' Hearths .. .. .	62, 63
Spring Dividers .. .. .	67
Springs.—Locomotive, Engine, Carriage, Wagon, .. .. .	
" Buffer, Van, &c. .. .. .	51 to 56
Socket Chisels and Gouges .. .. .	88 contd.
" Mortice Chisels .. .. .	89
Soft Irons .. .. .	88 contd.
Spades and Shovels .. .. .	81, 82
Spanners, Forged and Malleable .. .. .	2
Spectacle Clines .. .. .	99
Spiking Hammers .. .. .	66
Spirit Levels .. .. .	109
Split Cotter and Linch Pins .. .. .	119
Spokehaves .. .. .	109
Spokehave Irons .. .. .	87, 109

## S—Continued.

	PAGE.
Spuds and Spud Hooks .. .. .	79
Squares.—Engineers' Steel .. .. .	108
" Joiners' .. .. .	4
Stalking Chisels .. .. .	88 contd.
Staple Vices .. .. .	5
Steak Beaters .. .. .	94
" Tonges .. .. .	76
Steam Boilers, Vertical and Horizontal .. .. .	38
" Cranes .. .. .	9
" Engines .. .. .	36, 37, 39, 40
" Engine and Boiler Mountings .. .. .	49, 50
" Gauges .. .. .	121 contd.
" Hammers .. .. .	42, 43
" Pumps .. .. .	39, 40, 41
" Taps, Cocks, and Valves .. .. .	49, 50
" Whistles .. .. .	50
" Winches .. .. .	9
Steel .. .. .	116
Stocks and Dies .. .. .	3, 5
Stone Picks .. .. .	66
Straight Edges .. .. .	4
Straw and Chaff Knives .. .. .	126, 128 contd.
Strickles, Scythe .. .. .	126
Stubbing Mattocks .. .. .	66
Sugar Nippers, and ditto on Stand .. .. .	77
Switching Bills .. .. .	78, 79
Swage Blocks .. .. .	59

## T

Tanners' Knives .. .. .	94
Tap Borers .. .. .	92
Taps and Dies and Tap Wrenches, &c., separately .. .. .	3
Timber Frames, Vertical .. .. .	16
" Scribes .. .. .	85
Tinmen's Tools .. .. .	117, 117 contd.
" Pliers .. .. .	76
" Hand and Stock Shears .. .. .	85, 117
Tinplate Workers' Machines .. .. .	117, 117 contd.
Tool Chests.—Emigrants' and Carpenters' .. .. .	84
" Gentlemen's and Youths' .. .. .	83
" Horticultural .. .. .	79, 79 contd.
Tongueing and Grooving Machines .. .. .	16, 21
Tooth Irons .. .. .	90
Top Irons .. .. .	90
Topsail Sheet Shackles .. .. .	99
Tower Cutting Nippers .. .. .	73
" Pincers .. .. .	73
Traces and Swivels, Cart and Plough .. .. .	11
Trasquillar or Mule Shears .. .. .	85
Traversing Jacks .. .. .	11
Trowels.—Brick, Edinburgh, and Masons' .. .. .	93
" Garden .. .. .	79 contd.
" Gauging, Plastering, and Pointing .. .. .	93
Tubes.—Lap Welded Boiler .. .. .	121
" Brass, Copper, and Block Tin .. .. .	121, 128
Tue Irons .. .. .	59
Turning Chisels and Gouges .. .. .	88
" Saws and Frames .. .. .	109
" Tools, for Iron .. .. .	4
Turning Lathes.—Foot and Hand .. .. .	13, 25, 26
" Slide and Screw Cutting .. .. .	26
" Triangular Bar .. .. .	25
" Wheel .. .. .	26
Turncrews, London and Gentlemen's .. .. .	108

## U

Universal Joiner .. .. .	20, 24
Upholsterers' Chisels and Claw Wrenches .. .. .	74
" Pincers .. .. .	75

## V

Vacuum Gauges .. .. .	121 contd.
Valve Cocks, Stop Valves, Slide and Reducing, .. .. .	
" &c. .. .. .	49, 49 contd.

V—Continued.				W—Continued.			
			PAGE.				PAGE.
Van Springs .. ..	..	..	55	Water Gauge Cocks .. ..	..	..	50
Veining Tools .. ..	..	..	87	Weighing Machines, Duckham's ..	..	..	13A
Vertical Deal Sawing Frames ..	..	..	14	Well Boring Tools .. ..	..	..	121 <i>contd.</i>
" Balk or Timber ditto .. ..	..	..	15	West India Hoes .. ..	..	80, 80	<i>contd.</i>
" Drilling Machines .. ..	..	13, 23, 25, 32	..	Winches.—Crab .. ..	..	..11, 13c	..
" Feed Engines .. ..	..	..	40	" Steam .. ..	..	..	9
" Saw Frames .. ..	..	..	13	Wire Rope .. ..	..	..	114
" Steam Boilers .. ..	..	..	38	Wire, Steel and Iron .. ..	..	..	115
" Steam Engines .. ..	..	..	36, 37	" Strand .. ..	..	..	114
" Pumps .. ..	..	..	39	Wood Screws.—Iron, Brass, and Copper ..	..	..	120
Vices.—Staple .. ..	..	..	5	Wrenches.—Coach and Railway .. ..	..	..	2
" Parallel, Portable, and Bench..	..	..	5, 12	" Claw .. ..	..	..	74
Volute Springs .. ..	..	..	56	" Gas Pipe .. ..	..	..	5, 12
W				" Wheelers' Bruzzes .. ..	..	..	98
Waggon Springs .. ..	..	..	51 to 56	" Rounders .. ..	..	110	<i>contd.</i>
Wall Drilling Machines .. ..	..	..	23, 32	Wheel Cutting and Dividing Engines..	..	..	35
Warrington Hammer Heads ..	..	..	68	Wheel Turning Lathes .. ..	..	..	26
Washers, Iron and India Rubber ..	..	118 <i>contd.</i> , 121	..	Z			
Water Tue Irons .. ..	..	..	59	Zinc Sheet, &c. .. ..	..	..	128

**SPECIAL QUOTATIONS GIVEN FOR MACHINERY AND TOOLS, TO WHICH  
THE PRICES ARE NOT ATTACHED IN THE LIST.**



